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The
CHEMIST AND DRUGGIST
or RETAILER - WHOLESALER - MANUFACTURER

MARCH 27, 1948

AVLON' PENICILLIN SALTS
and PENICILLIN PREPARATIONS

Penicillin—Crystalline Sodium Salt.
Minimum potency 1,600 units per mg. 0.1, 0.2, 0.5, 1.0 mega unit. Single vials and boxes of 10.

Oily Injection of Penicillin B.P. Vials of 10 c.c. and boxes of 10.

Lozenge of Penicillin B.P. Bottles of 25.

Penicillin with Sterilised 'Sulphamezathine' Powder.
(5,000 units calcium salt per gramme) Bottles of 25 grammes.

Penicillin with Sterilised Sulphanilamide Powder.
(5,000 units calcium salt per gramme) Bottles of 25 grammes.

Penicillin Sodium Salt. (0.1, 0.2, 0.5, 1.0 mega unit) Single vials and boxes of 10.

Ph.208

IMPERIAL CHEMICAL [PHARMACEUTICALS] LTD.
THE RIDGE, BEECHFIELD ROAD, ALDERLEY EDGE, MANCHESTER

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These 5 popular selling lines should be on your shelves

★

Wright's Coal Tar SOAPLESS LIQUID SHAMPOO

imparts lustre to the hair, and health-invigoration to the scalp

★

Wright's Coal Tar NURSERY POWDER

a soft-as-silk, impalpable powder for nursery use

★

Wright's TONSOR Coal Tar BRUSHLESS SHAVING CREAM

gives shaves of "billiard-ball" smoothness

★

Wright's Coal Tar OINTMENT

for the treatment of eczema, psoriasis, spots, pimples and blackheads

★

Wright's Coal Tar VAPORIZER & INHALER

helps to relieve colds, catarrh and like congestive conditions

All made by the makers of the famous WRIGHT'S COAL TAR SOAP

WRIGHT, LAYMAN & UMNEY LTD. 44-50 SOUTHWARK ST., LONDON, S.E.1. Tel.: HOP 4021 (10 lines)

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HIGH GERMICIDAL EFFICIENCY

of Cresantol-15—its R.W. coefficient is 65 when suitably formulated—is not by any means the only advantage this Monsanto germicide offers in the manufacture of modern antiseptic fluids. In these days of shortages, the

READY AVAILABILITY

of Cresantol-15 is of major importance. And, when you add

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to both these advantages,

CRESANTOL-15

is well worthy of consideration if you are contemplating the manufacture of an efficient antiseptic fluid . .
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Victoria Station House, London, S.W.1.

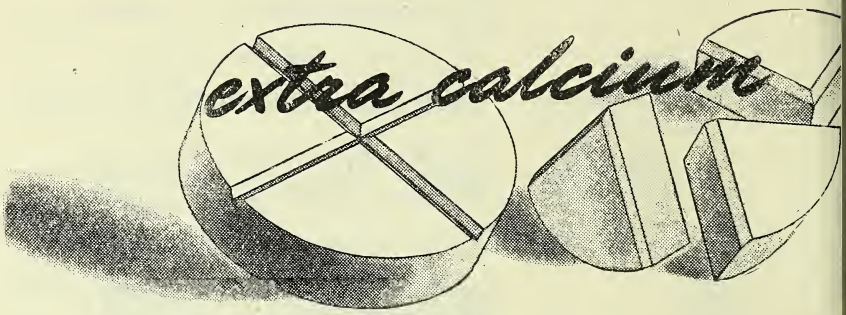
MONSANTO CHEMICALS

For full general, technical and application data on Cresantol-15 write for Technical Service Bulletin No. 2B

SERVING INDUSTRY WHICH SERVES MANKIND

A

when the call is for



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Each Ostocalcium Tablet yields 125 milligrams of calcium togethe with 500 i.u. of vitamin D to ensure proper assimilation of the miner by the body. Mint-flavoured, Ostocalcium Tablets may be chewed c crushed and taken in milk or water, whichever method is mo acceptable. The tablets have cleavage lines to facilitate divide dosage. Study the parcel prices below and you will notice th Ostocalcium shows a satisfactory profit-margin as well.

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Retail 1/4½ per tin
(including Purchase Tax)

Wholesale 9/- per dozen
(plus 33⅓% Purchase Tax)

★ **Bonus terms profit.**

6 doz. tins cost	**£2.14.0**
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„ „ (on bonus)	**1.6**
Total cost	**£3.13.6**
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Profit	**£1.13.9**

=nearly 46%

GET THE 46% PROFIT, THAT'S GOING

★

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Evans Blue Cross Baby Powder, backed by the nationally-advertised *name of Evans*, is readily selling and bringing repeat sales as well.
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BOURN-VITA

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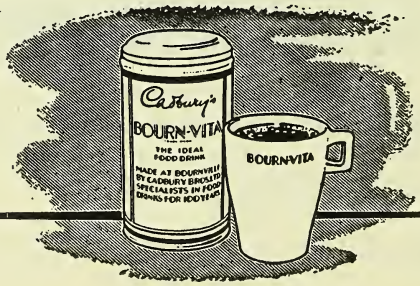
THROUGH YOUR WHOLESALE DRUGGIST



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(*continued overleaf*)

Where do you find athlete's foot?

Despite the implication in the name, athlete's foot is more prevalent among the spectators than it is among professional athletes, to whom care of the feet is of primary importance. The introduction of Mycil, the new fungicide developed in the B.D.H. Research Department, marks an advance in prevention and treatment of an infection which is more wide-spread than is generally realized.

PRICES	Trade Excl. Tax	Retail Incl. Tax
Mycil Ointment	2/8	4/11
Mycil Dusting Powder	1/9	3/4

MYCIL

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Myc/T/3

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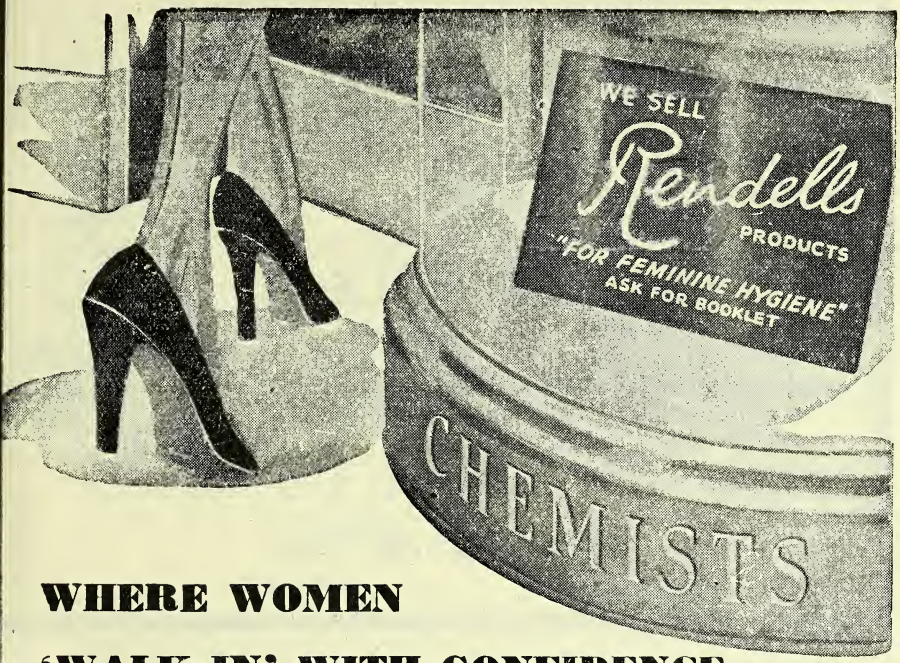

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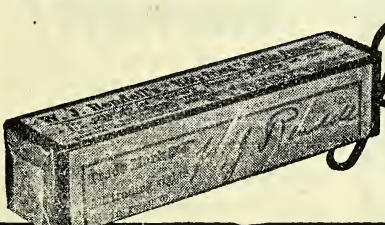

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Stand No. E 53

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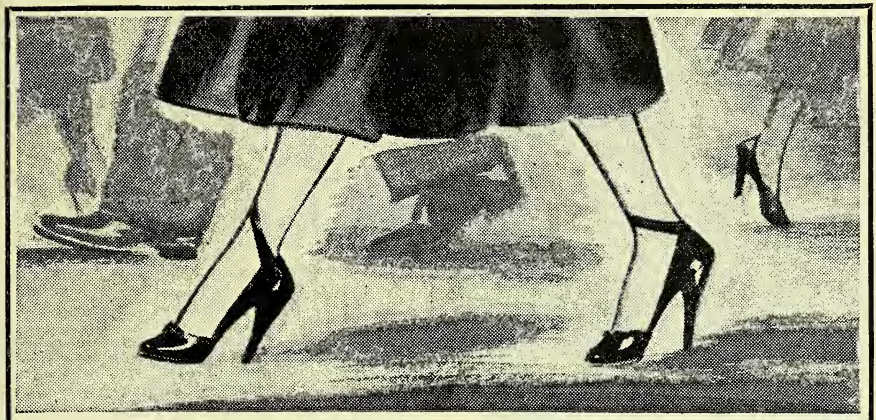

Corns are coming into fashion again!

High-heeled, close-fitting shoes, essential for wearers of the "New Look" long skirts, may bring an increase of foot troubles amongst your feminine customers. They'll be looking for 'Freezone' Corn Remover — so help them to speedy relief by putting the handy 'Freezone' display unit on your counter.

Remember, every 'Freezone' bottle you sell brings you at least 4½d. profit—on the most favourable terms your profit is as much as 6⅛d. per bottle! 'Freezone' Corn Remover retails at 1/10½. Trade Price 13/6 per doz. P.T. 4/6 per doz.

'Freezone' can be included with other I.C.C. lines to qualify for Co-operation Discounts of 12½% on orders of £10 and over, 10% on orders of £5 and over.

Be ready to sell more

Freezone *Trade Mark* **Corn Remover**

INTERNATIONAL CHEMICAL CO. LTD.

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Nearly Five times the Profit FOR ONE-SIXTH OF THE TROUBLE

The 26/5 size 'Curicones'—the FULL treatment—is the size your customers ask for. This choice is wise both from their point of view and your own.

YOU ENJOY THESE ADVANTAGES BY STOCKING THE 'CURICONES' 26/5 SIZE

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ORDER A ¼ DOZ. FROM YOUR WHOLESALER TO-DAY—and satisfy your customers.

CURICONES

CF *for the relief of* P.A.T.A.

RHEUMATISM *and* KINDRED ILLS

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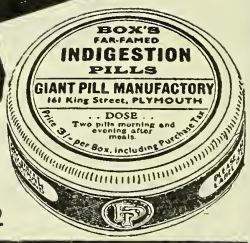
Box's Pills have kept this Flag Flying for over 50 years and the demand now is greater than ever.



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5/5
13/4 & 24/2

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It is economical in use, too, and most men who try it become regular users.

Make sure of your share in the growing demand for Macleans Shaving Cream.

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FIELD & Co. (Aromatics) Ltd.,
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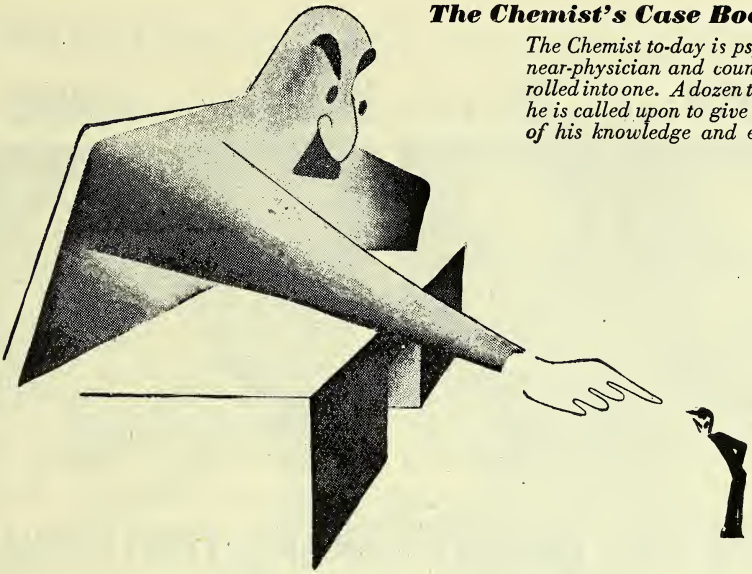
The Chemist's Case Book.

The Chemist to-day is psychiatrist, near-physician and counsellor, all rolled into one. A dozen times a day he is called upon to give the benefit of his knowledge and experience.



'Nerves'

Even where a nervous debility is not directly caused by dyspepsia it reacts on the digestive organs and so aggravates the condition. A course of Benger's Food every night for a month, as every Chemist knows, soothes the stomach because the Food, being partially pre-digested, the digestion is given a chance to rest and recuperate. The calm sleep which Benger's Food induces soothes the nerves. Often the Benger's Food is the only form of nourishment the nervous type can assimilate. Benger's Food can be a steady and continuous sale if the Chemist will remember to recommend it.

Benger's Food

Important!

Benger's Food is not to be confused with ordinary bed-time drinks. It is a partially pre-digested milk *food*. Benger's to-day is as easy to make as a cup of cocoa.

BENGER'S LTD., HOLMES CHAPEL, CHESHIRE

Turnover

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and quickest selling

WITH THE CORRECT-SHAPE TOOTHBRUSH

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Wisdom REGD. **THE QUICKEST-SELLING TOOTHBRUSH**

ADDIS LIMITED, BRUSHWORKS, HERTFORD. ESTABLISHED 1780

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ephedrine cough syrup

an M&B product

sells at
1s. 9d.
(Plus 4½d. Purchase Tax)

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In the age of the alchemists the Amazon Indians used curare for poisoning their darts. Today the chemists have converted this arrow poison into one of the most modern adjuncts of medical science

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PRECIPITATED
CALCIUM CARBONATE
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A Guarantee with every Bottle.

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176/177 HIGH STREET, SWANSEA
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CHEMISTS ONLY

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The VITAMIN MALT FOOD

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Shake as you will, the powder cannot escape—one tap on the disc and Presto!—there is the powder ready for use. The all-metal "Non-Spill" Powder Compact is finely constructed with no sitter to replace, and finished in a variety of attractive designs.

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Now in attractive Plastic Containers . .

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The 'PEN' DISPLAY BOX contains 1 doz.

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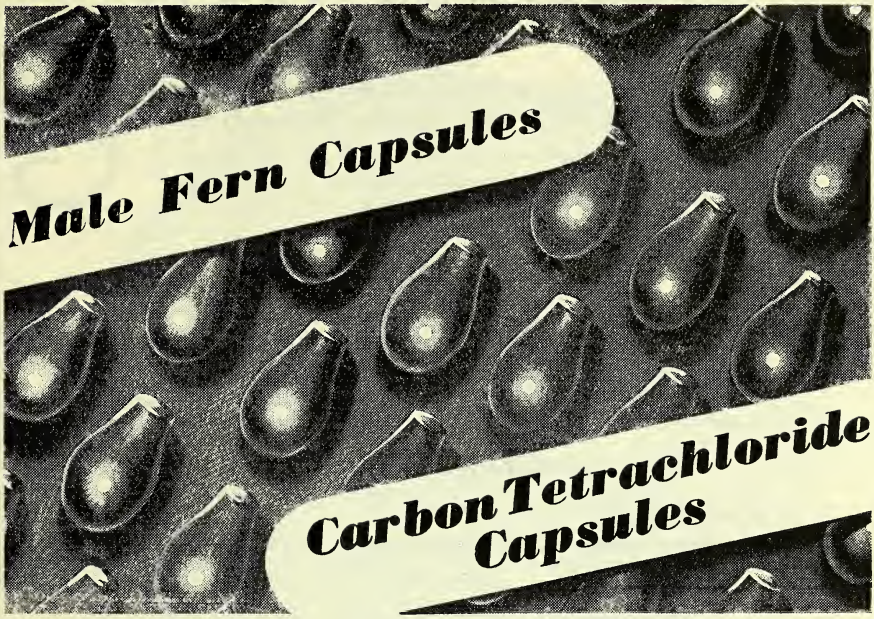

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A Liver Extract of Exceptional Purity and High Hæmopoietic Activity for Painless Parenteral Therapy.

For the treatment of :—

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Every batch issued is clinically tested
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RETAIL PRICE 2/- .. 15/6 doz.
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Suttexa— THE RANGE WITH THE BIG FUTURE

PERFECTION IN PACK & DESIGN—COLOUR SCHEME OF OUTSTANDING MERIT

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Premature Feeding Bottles · Standard Feeding Bottles
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$33\frac{1}{3}$% Profit on all sales—Write for BONUS TERMS.

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Penicillin with Sterilised Sulphathiazole, etc. Aqueous and Oily injections supplied within a radius of 25 miles. Full particulars on request.

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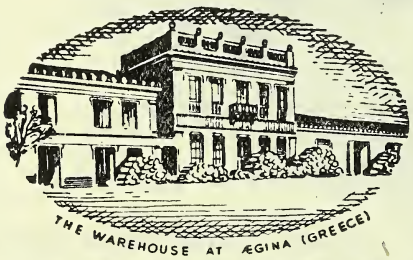

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"RELIANCE" BRAND

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We have no connection with any other firm advertising sponges or chamois leathers in this Journal.

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Manufactured only by
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SURE-SELLING STOCK!
OVER 150 YEARS REPUTATION
KEARSLEY'S
THE ORIGINAL
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9d. BOX PROFIT by ordering 1 dozen 3/3½ size. Bonus box given on every dozen (13). it pays to push this size.

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71 Dartmouth Rd., London, S.E.23
Est. 1787 in the Reign of King George III

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Adequate stocks — mean GOOD PROFITS

Stock shortage can lead to reduced turnover, and with the drop in turnover opportunities for profit are lessened. Keep adequate stocks therefore, of

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These popular quick-selling lines are famed for their consistent purity and efficacy.

Supplies of attractive display materials are available on request. All enquiries should be addressed to :—

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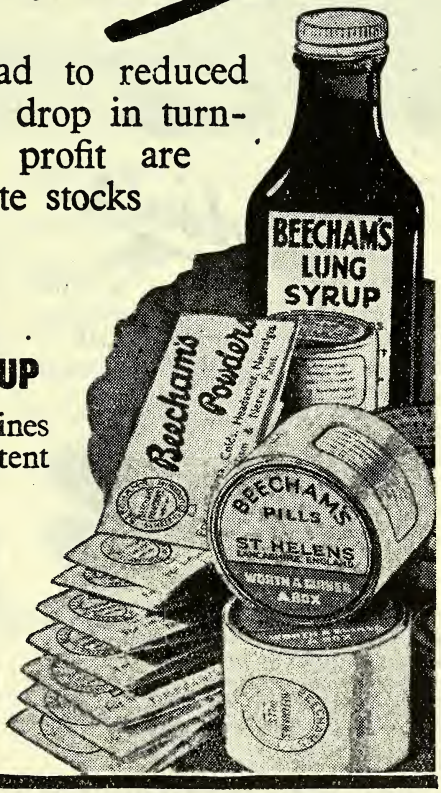

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TOILET SOAP AND COMPLEXION SPECIALISTS

We have pleasure in inviting you to visit our Stand E.12 at The British Industries Fair. In addition to our well-known products we are presenting several new preparations.

AVA Liquid Cream Shampoo—a soft and safe emollient for children and adults.

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Further details are available at our Stand or direct from Head Office.

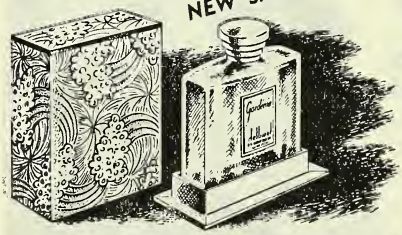
1948 OLYMPIA & EARLS COURT MAY 3-14 SEE OUR EXHIBIT

Stand No. E12

AVA LTD.

9, PARK HILL, CLAPHAM, LONDON, S.W.4

Our superb **Gardénia** *perfume is now available in the* NEW SMALL SIZE



A well advertised, proved seller, attractively packed. Also available in No. 5, Muguet and Chypre, boxed singly as illustrated. No. 729 . . . 48/- per dozen, plus purchase tax 125%, carriage paid, packing free. Retail price 11/- each. Please order early to ensure prompt delivery. Attractive full colour showcard free on request.

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SOFT SOAPS

for Textile and other technical and general uses.

Some lines not yet available owing to war-time regulations.

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SOAP AND DISINFECTANT MANUFACTURERS

DELCO WORKS, RICE LANE, LIVERPOOL, 9

Telegrams: Glycerine, Liverpool
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RECOMMENDED FOR NERVES

DR. NIBLETT'S
VITAL RENEWER
NERVE SEDATIVE

for **70 YEARS**

Retail price 6/- per bottle including purchase tax

TRADE DISCOUNT 33⅓%

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As from April 1st 1948 J. C. Eno Limited will be the sole distributors in the United Kingdom and Northern Ireland for:

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Save yourself time and trouble by combining your orders for these famous household remedies with:

ENO'S "FRUIT SALT"
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SEROCALCIN
THERMOGENE MEDICATED WADDING
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This will mean only one invoice, one account, and the maximum Eno group Display Discounts.

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Telephone: Watford 7761 (3 lines) Telegrams: Efferveno Watford

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Leslie Marks & Company Ltd.
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SUNGLASSES

for the 1948 Season

Fitted with

CROOKES LENSES

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It's by Pears...
It's new...
It's different...

Gloria

Liquid Shampoo

CONTAINING
OLESTOL

1 Leaves every single hair perfectly clean.
2 Gives hair *extra* shine.
3 Reveals exciting new natural tints in the hair.
4 Does not "parch" hair or scalp.
5 Leaves the hair healthily supple and so easy to do, right away.

It's backed by one of the most powerful advertising campaigns in recent years . . . PRESS... CINEMAS... HOARDINGS . . .

A. & F. PEARS LTD., ISLEWORTH. MIDDX. PGT.1/956

MARION MOORE'S

Shampoo

An excellent liquid Shampoo, quick selling, good profits. Nationally Advertised, Show material available

NOTE THE POPULAR PRICES

Sold in 3 sizes :	1/3	2/3	4/- (incl. P.T.)
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Dental Sticks are specially made for massaging the gums — They are not Tooth-picks —

Dental Sticks are manufactured from various types of specially selected soft and hard woods and also from whalebone and are intended entirely for massaging the gums between the teeth.

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LIPSTICKS
and **REFILLS**

Cosmetized from our exclusive American Formula into the Season's latest shades

★ **YOU ARE SUPPORTED BY EXTENSIVE ADVERTISING** ★

Send for Shade Card and details of Trade terms.

J. DUNHILL MANUFACTURING CO.

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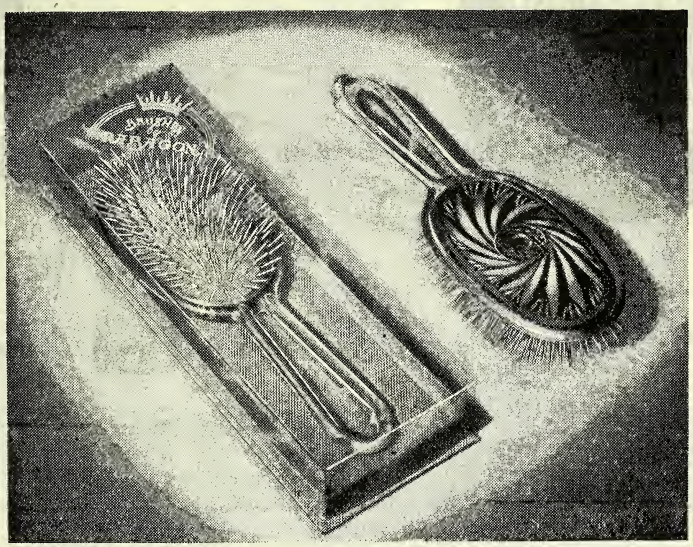
TELEPHONE : MAYFAIR 1603

BRUSHES BY PARAGON



Presenting **Hair Brushes** *of Elegance and Craftsmanship*

Rubber cushioned with plastic or wire pins. Colourful embossed backs in Gold, Silver, Blue, Pink and Green. These brushes are unique for grace of design and will stir the possessive instinct of every woman. Display Paragon brushes in their individual transparent boxes and watch your sales go up . . . UP . . . **UP.**

Stocked by leading Wholesalers.

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Retail Prices incl. P.T.

Wire Pins	25/6	each.
Plastic Pins	29/6	„

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THIRTY YEARS REPUTATION

Kenrosa HAIR PREPARATIONS

Kenrosa COCOA NUT OIL SHAMPOO POWDER

Everyman's HAIR CREAM

Doctor HARR'S 6-8-6-B SCURF and DANDRUFF Lotion

GUARANTEED TO REMOVE SCURF & DANDRUFF AND TO NOURISH THE HAIR

BRITISH MADE

Kenrosa LTD.

LONDON. E.5.

Manufacturers of PASHANA, FOUGERE LOTIONS, TONFREY'S DRY SHAMPOO ETC.

FOR PROFITABLE REPEAT BUSINESS!

DENSHEEN Peroxide TOOTH WHITENING PENCIL

REMOVES STAIN 6D

MAKES YOUR TEETH REALLY WHITE WITHOUT INJURING THE ENAMEL

IT PAYS to include DENSHEEN with all Tooth Brush and Dentifrice Displays

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There is nothing doubtful about our products. They are made of the finest ingredients, skilfully blended, attractively packed and fairly priced.

DELAVELLE products will give your premises an air of distinction and your customers a sense of delight.

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SAPO MOLLIS B.P. VIRID. SAPO MOLLIS B.P.
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TYRO-LOL GERMICIDE
Three times stronger than Carbolic Acid.
Non-poisonous and non-irritating

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SUPER INDELIBLE

—does NOT come off!

in 8 transparent shades which are smearless and smudgeless and remain fast to eating, drinking, etc., for at least 8 hours.

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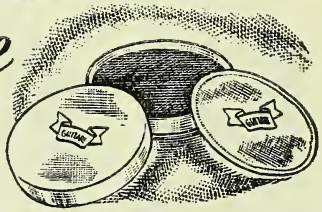
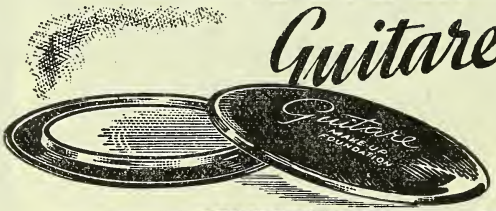


IN EIGHT SHADES TO MATCH

the lipstick. Of perfect tone and texture. Rouge Guitare is sought after by all smart women for enhancing natural beauty.



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MAKE-UP FOUNDATION

Does not dry the skin. A delightful skin conditioning creamy foundation. In 8 shades. It contains Lanolin and cannot dry the skin.

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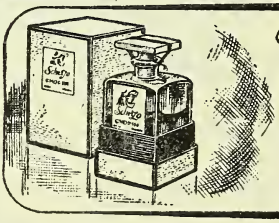
Lengthens and strengthens the lashes. Contains no caustic or other harmful ingredient. Does not smart. Does not run. In four shades and colourless. Tube or cake. A big favourite with modern women.



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Mazurka, Berceuse, Scherzo. Three exquisite perfumes from Paris to intrigue and delight all smart fashionable women.

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The **brand** *makes the distinction*

Pharmacists have learnt to tame the vegetable purgatives, known in other centuries for their vigour. They have combined very small doses of several, so that adequate laxative action is obtained without causing irritation. A gentle natural action and sustained intestinal tone are finally ensured by adding a mild antispasmodic and a carminative.

Such is the art which goes to make 'Tabloid' brand Laxative Vegetable.

Such is its reputation that many customers insist on 'Tabloid' brand.

Each sugar-coated product contains :—

Compound Extract of Colocynth. B.P. 1914	gr. 1
Extract of Jalap	gr. 1/2
Podophyllum Resin	gr. 1/4
Green Extract of Hyoscyamus. B.P. 1898	gr. 1/4
Menthol...	gr. 1/20

Retail Prices :

Bottle of 25.....1s. 0d. plus 3d. tax

Bottle of 100.....2s. 10d. plus 8½d. tax

'Tabloid' BRAND Laxative Vegetable

(REVISED FORMULA)

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)*, **LONDON**

(T.49a) PATA

QUALITY ENDURES
TRADE MARK
ESTABLISHED 1794

"Dr. JENNER'S ABSORBENT LOZENGES"
TRADE MARK BRAND
Digestive Tablets
The proved specific for digestive disorders is "Dr. Jenner's Absorbent Lozenges." Discovered 150 years ago by the great pioneer of vaccination, this is one of the very few proprietary medicines regularly prescribed by General Practitioners and by Specialists.

"MEDILAX"
TRADE MARK BRAND
Laxative Pellets
Meeting the need for something more persuasive than ordinary laxatives. "Medilax" is imperative without being discomforting and, unlike drastic purgatives, does not induce a subsequent state of constipation which is often more acute than the first.

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Carbachol
Powerful parasympathetic stimulant.

"TETRONOX"
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Tablets
Reliable, hypnotic and sedative.

MARTINDALE
"E·S·T·P"
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Ether-Soluble Tar Paste
An advance in coal tar therapy. Of particular value in eczema of all forms.

MARTINDALE
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Wide range of products for injection.

SQUIBB
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Compound Ointment
Tissue-repair promoting Antiseptic.

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Savory & Moore, Ltd.
Chemists to The King
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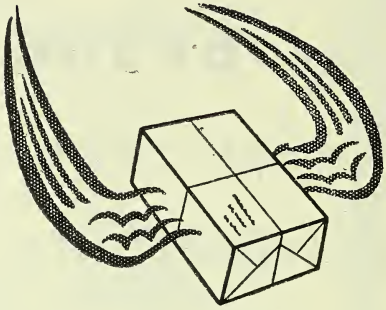

OXOID laboratory preparations are despatched with unfailing promptness, and reach you with gratifying speed.

This is a service you can rely on; every order is an emergency order.

Write, telephone or wire your instructions.

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NEWS OF THE WEEK

Sponges Tax-free.—The Commissioners of Customs and Excise have decided that, from April 1, unbleached real sponges will not be regarded as chargeable with purchase tax.

Purchase Tax from Drugs.—The Chancellor of the Exchequer (Sir Stafford Cripps) stated recently that receipts of purchase tax from medicines, drugs, disinfectants, toothbrushes and tooth-paste were estimated to be in the region of £15 millions yearly.

Dentists and the N.H.S.—The British Dental Association announced recently that a decision of its representative board to recommend members not to enter the National Health Service had been followed by meetings of nine branches at which 1,080 members voted against any participation in the service and thirty-three voted in favour.

Export Licensing Control Amendments.—Changes are made in export licensing controls by a Board of Trade Order (S.I., 1948, No. 521) which comes into operation on April 1. Among goods which from that date will not require export licences are fish-liver oils, vitaminised oil, vitamins A and D; ready-packed soapless shampoos.

Citrus Fruit Juices.—The Citrus Fruit Juices Control invites manufacturers who require citrus fruit juices (lemon, orange, grapefruit, or lime juices) to apply for a form which sets out the terms and conditions upon which they may become available within the next few months. Application must be made not later than April 17, to the Secretaries, Citrus Fruit Juices Control, 4B Frederick's Place, Old Jewry, London, E.C.2.

Pharmaceutical Council Election.—The secretary of the Plymouth Branch of the Pharmaceutical Society announces that, owing to pressure of business, due mainly to the rebuilding of Plymouth, Mr. Fernley Wallis will not be standing for election to the Council this year; he hopes to do so next year.—Mr. J. Ross Mansell has accepted nomination. In a letter to the deputy secretary of the Society he writes: "In view of the fact that my election address last year was censored, I regret that I cannot accede to the request that I

shall refrain from canvassing votes, either directly or through any organisation to which I belong. . . . I am standing as candidate this time for the essential purpose of ventilating this position, and I cannot, in the circumstances, subscribe to any suggestion which denies me the right to submit my views to the electorate."

Exports to Poland.—The Treasury has made an Order, published as S.I., 1948, No. 449, further amending the Exchange Control (Payments) Order, 1947, so as to enable a greater number of payments from Polish "transferable accounts" to be made without specific Treasury permission.

Health Regulations for Air Travel.—The Public Health (Aircraft) Regulations, 1948 (S.I., 1948, No. 387, H.M. Stationery Office, price fivepence), in operation from April 1, bring up to date the arrangements for the sanitary control of airborne traffic arriving in England or Wales from infected places abroad.

Weedkiller Warning.—The Ministry of Agriculture has issued a warning that preparations containing dinitro-ortho-cresol (D.N.O.C.) and used for killing weeds or spraying fruit trees are dangerous to health if improperly used. Particulars of suggested precautions are given in the Ministry's advisory leaflets No. 2 ("Destruction of Yellow Charlock") and No. 315 ("Weed Control in Cereals").

Chemists' Dental Society.—At a meeting of the Council of the Chemists' Dental Society held on March 18, Mr. G. C. C. Hinton presiding, it was unanimously decided to revive the activities of the Society. Pharmacists who are also on the dentists' register are invited to communicate with the secretary of the Society (Mr. J. W. Roberts), 16 Tavistock Place, London, W.C.1.

Token Imports for 1948.—Proprietary medicines, packed ready for retail sale, are included in the Board of Trade Token Imports Scheme for 1948. The scheme applies to Australia, Canada, France, Holland, India, Italy, Pakistan, Sweden, Switzerland, U.S.A. and Denmark. The annual quota is 20 per cent. of the value of each individual manufacturer's average trade with the United Kingdom in the commodity in question in 1936-38.

"Simple Language" Plea.—In a letter sent to the President of the Board of Trade recently, the London Chamber of Commerce urges that Statutory Instruments and other public documents should be written in simple language; the "obscure language" of the recent Miscellaneous Goods (Maximum Prices) Order, 1948 (S.I., 1948, No. 348), says the letter, had made it difficult for trade associations fully to understand it. The letter also claims that arbitrarily to fix prices at a level showing no profit would be to encourage the black market.

Retail Trade in January.—Sales of chemists' wares by large-scale retailers in January were 12 per cent. higher in value than in the corresponding period of 1947, and 14 per cent. higher on the year. Although the January rise is not dissimilar to those of recent months, big purchases of goods, particularly cosmetics, were made before they became liable to the higher tax; it may be that the effects of resultant higher selling prices are not yet shown in the Board of Trade returns. Sales of independent chemists were at about the level of July to October 1947. The recorded rise in sales for January, compared with a year earlier, was 6 per cent., a smaller increase than in earlier months. On the year the increase in sales of independent retailers was similar to that for large-scale traders.

Public Opinion Polls.—Questions about the National Health Service were put to a cross-section of adults in Great Britain in a recent British Institute of Public Opinion ("Gallup") poll, the results of which were published in the "News-Chronicle." 61 per cent. of those questioned thought the new service would be a good thing, and 13 per cent. a bad thing. Of 64 per cent. who claimed some knowledge of the dispute between the Minister of Health and the British Medical Association, 30 per cent. said their sympathies were with the doctors, 28 per cent. against. In another poll in which members of the public were asked whether they would be helped personally if shops were kept open later one night a week, 30 per cent. replied "yes" and 64 per cent. replied "no."

Advertisers and the Press. — A memorandum submitted by the Advertising Association to the Royal Commission on the Press refutes a statement made to the Commission by the National Union of Journalists that the Pharmaceutical Society's memorandum on proprietary medicines (see *C. & D.*, 1947.I.565) had had a "poor Press." The Advertising Association, in its evidence, pointed out that, according to the secretary of the Pharmaceutical Society, there had been sixty-four Press references, including some front-page notices, to the

Society's memorandum, making a total of 432 column inches. Among advertisers who answered a questionnaire sent out by the Association were a number known to pharmacists. The Beecham Group, Ltd., stated that they had never made representations to newspapers in respect of their editorial policy and had supplied no editorial matter except in relation to certain cosmetics. Gillette Industries, Ltd., stated that they had never supplied editorial matter to the papers in which they advertised or to others. Relations between advertisers and the Press, they stated, had deteriorated during and since the war, owing to the curtailment of newsprint. Lever Brothers and Unilever, Ltd., recorded that they made a practice of supplying editorial matter to newspapers ("always, we believe, of a helpful nature and usually directed to the women's section of the paper"). Yardley & Co., Ltd., stated that they made a practice of supplying editorial matter concerning their products and that the extent of their advertising did not appear to affect the willingness of periodicals to accept it.

LOCAL NEWS

Branch Factory Visit.—A party from the West Kent Branch of the Pharmaceutical Society visited Glaxo Laboratories, Ltd., Greenford, on March 17. After being received by Mrs. R. Denston, B.Pharm., Ph.C., the party was conducted on a tour of the premises.

Sales Conference. — The annual sales conference of Francis F. Fox & Co., Ltd., Bristol, was held at the headquarters of the parent company (William Butler & Co. (Bristol), Ltd.) on March 5. In the evening the sales staffs of the two companies were guests of the directors at a dinner and smoking concert at which Dr. T. Howard Butler (chairman) presided.

Weston-super-Mare Dinner.—The first dinner and social evening of the Weston-super-Mare Pharmacists' Association was held on March 11. Mr. Gerald F. Wadham (Organon Laboratories, Ltd.) acted as toastmaster and master of ceremonies, and Mr. E. Widgery proposed "The Visitors," Mr. S. Tydeman, Bristol, responding. A conjuring display was given by Mr. J. T. Bonthron (Evans, Gadd & Co., Ltd.), and Mr. John Chalmers entertained at the piano. Mrs. M. Buckingham, with the Association's social committee, was responsible for arranging the programme.

N.H.S. Retention Fee Urged.—At a well attended meeting of the Shropshire and Montgomeryshire Branch of the Pharmaceutical Society held in Shrewsbury recently, resolutions were unanimously passed recommending to the Contractors' Committee (1) that all N.H.S. contractors should receive a retention fee in addition to an agreed amount for every prescription dispensed; (2) that a superannuation scheme should be adopted; and (3) that a higher rate should be payed for dispensing in sparsely populated areas "where hours are long and prescriptions few and far between."

London Staff Dance.—C. J. Hewlett & Son, Ltd., manufacturing chemists, held their fortieth staff dance in London on March 13, Mr. Vivian C. Hewlett, Ph.C., in the chair. Some 200 members of the staff with friends and visitors from overseas were present. "The Company" was proposed by Mr. A. J. Hartley (secretary), who referred briefly to the progress which had been made in the reorganisation and re-equipment of the company's factory. "The Guests" was proposed by Mr. Charles J. Hewlett (managing director) who later presented a medal to Mr. R. J. Morrison, to commemorate the completion of sixty years' service with the company.

Mr. Adams in Derby. — Mr. F. W. Adams (deputy secretary, Pharmaceutical Society), speaking at the March meeting of the Derby Branch of the Pharmaceutical Society, discussed the method of organisation of the Society's branches and the new education policy recently introduced by the Council. He also made brief reference to the National Health Service. Questions followed. Members were disappointed, writes Mr. H. E. Chamberlain (secretary), that more concrete information was not available about National Health Service negotiations. A number of patients from the Society's Benevolent Home at Birdsgrove House were present at the meeting.

Branch Dinner at Durham.—The first post-war dinner of the Durham County Branch of the pharmaceutical Society on March 10 was attended by Mr. J. F. McNeal (a member of the Council) accompanied by Mrs. McNeal. Other guests included Dr. Rowson (pharmacy department, Sunderland Technical College), Mr. J. E. Bradley (clerk to the Durham County Insurance Committee), Dr. S. K. Young (medical officer of health, Durham City), Mr. H. Thom (president, Newcastle and Northumberland Branch of the Society), and Mrs. Thom, and Mr. Townshend

(president, Sunderland Branch). The president of the Durham County Branch was in the chair.

Amino-acridines Lecture. — At a joint meeting of the Dartford Branch of the Pharmaceutical Society and the London and South-eastern section of the Royal Institute of Chemistry held at Dartford on March 15, a lecture entitled "Physico-chemical Concepts in Interpreting Drug Action, with Illustrations from the Amino-acridines," was given by Mr. Adrien Albert, Ph.D., F.R.I.C. The speaker outlined the chemical structure of a large number of amino-acridine compounds and discussed their physical properties when in solution. From a study of the degree of ionisation of the active groupings in such compounds and their adsorption at the surface of colloidal membranes, he said, it was often possible to forecast their relative degree of penetration and lethal action.

Society's President in Sheffield.—Speaking at a recent meeting of the Sheffield Branch of the Pharmaceutical Society, Mrs. J. K. Irvine (president of the Society) said pharmacy had welcomed the National Health Service Act and, if terms and conditions were satisfactory, was prepared to take its part in the service. It was to be regretted, she said, that neither the Pharmaceutical Society nor retail pharmaceutical employees were represented on the Whitley Council for pharmacy. At present 70 million prescriptions a year were being dispensed in some 15,000 retail pharmacies; it was estimated that there would be 170 million prescriptions annually under the new service. Health centres, which were likely to be slow in development, would be built mainly in well populated areas. Replying to questions, Mrs. Irvine said the provision of refresher courses was limited by the availability of teachers and facilities; courses had been arranged wherever possible. Free refresher courses under N.H.S. were likely to be available eventually, but the Society had not yet made preparations for them. Labour was not likely to be directed to pharmacy to meet the demands of the service, she said. The profession would have to face up to the problem of the unqualified assistant; pharmacists produced by the new education policy would be capable of making use of "technicians" for routine work. It was better for the individual pharmacist to decide on who were suitable people to dispense under supervision rather than have the matter controlled by regulations.

OVERSEAS NEWS

Revision of Canadian Formulary.—The Canadian (pharmaceutical) Formulary is to be revised and the new edition will be published in 1949.

Portuguese Olive Oil.—It is expected that the production of olive oil in 1948 will exceed one million hectolitres—a record total—against original estimates of 900,000 hectolitres.

Pharmacists in Canadian Army.—The Executive Council of the Canadian Pharmaceutical Association is to request the Canadian Army to fill its pharmaceutical posts with graduate pharmacists. At present army-trained men occupy the posts.

Swiss Exports.—Switzerland exported in February pharmaceutical products valued at fr. 11,700,000 against fr. 11,100,000 in January. Corresponding totals for perfumery products were fr. 2,200,000 (fr. 1,800,000), and for industrial chemicals fr. 7,300,000 (fr. 6,800,000).

Isotopes for Research.—From April 1 the U.S. Atomic Energy Commission is to supply free of charge (except for handling and transport charges) to workers on cancer research the radioactive isotopes iodine-131, phosphorus-32, and sodium-24. It is expected that other isotopes will be added to the free list.

Rising U.S. Aspirin Consumption.—Addressing a meeting of the Pacific Coast section of the American Pharmaceutical Association recently, Mr. B. C. Merrill (assistant vice-president of the Rexall Drug Co.) said that American consumption of aspirin was now four times that of 1929, and amounted to nearly £10 millions' worth yearly.

U.S. Marketing Problems. — Formation of a new section of the American Chemical Society, to study problems associated with marketing chemical products, is announced by Professor H. F. Johnstone, University of Illinois (chairman of the Society's division of Industrial and Engineering Chemistry). The section will hold its first meeting in Chicago on April 19.

Greek Olive Oil.—The Greek Ministry of National Economy has issued a decree lifting the minimum ban on the export price of olive oil. In January the average minimum export price was set at $1,100 per ton. Exports have been disappointing owing to the weakness of the world market and the unwillingness of hard-currency buyers to make large purchases on a falling market.

TOPICAL REFLECTIONS

Conference Science Papers

The invitation of the general secretaries of the British Pharmaceutical Conference to submit titles of monographs suitable for the next meeting of the Conference (p. 357) will no doubt meet with a ready response. Prospective authors will notice, if they do not always heed, the suggestion of a maximum of 4,000 words for each paper. At first sight the imposition of such a limit may appear to cramp the style of enthusiasts who firmly believe that their investigations break fresh ground. But in practice the difficulty can be overcome by arranging, with the assent of the Conference Executive, to present the outcome of a research in two or more parts. The writing of science monographs is not easy. The late Sir Clifford Allbutt wrote an excellent little book on the compilation of scientific papers and articles; though I have forgotten its title and cannot at the moment trace it, the book is still worth reading. The principles of this kind of authorship do not vary to any marked extent from generation to generation. That they are valid in 1948, and that a reminder about them is not amiss, is shown by an expert's criticism of many of the papers in the Pharmaceutical Society's examinations in Edinburgh (p. 375). In science the first requirement in presenting results is clearness of expression. A few "frills" are all very well if they occur, or seem to occur, naturally, in the course of a demonstration; but they are not essential.

Charms in Medicine

Without knowledge of the local circumstances it would be useless for me to offer any comment on the application for official status for medicine men in South Africa (p. 360). On the general question of treatment with herbs by primitive people it has to be remembered that magic has always played a leading part in the process. In 1923 Dr. R. Campbell Thompson published in his "Assyrian Medical Texts" translations from cuneiform tablets previously discovered in Nineveh. The tablets date from the seventh century B.C. One of their salient features is the number of charms they include. To many of the charms a description of appropriate rites is appended, with the administration of medicines as a third and apparently supplementary part of the therapeutical process. Many centuries later a similar state of knowledge — or ignorance — prevailed among the Saxons. Cockayne's recension of certain manuscripts (1864-66) contains numerous examples. One reads: "For the better digestion of meat taken; take lupins, lay them under the altar, sing over them nine Masses . . . . If ale be spoilt, then take lupins, lay them on the four quarters of the dwelling, and over the door, and under the threshold, and under the ale vat, put the wort into the ale with holy water." In Europe the practice of curing by charms derives from Babylonia or Sumeria by way of Egypt; the employment of medicaments without recourse to charms comes from Greece by way of the Roman Empire. So slow is the tempo of change among backward races that the magic of the medicine man may be found in force even today if one knows where to look for it.

When Dr. Wall Prescribed Musk

Just two centuries ago, in "The Gentleman's Magazine" for March 1748, appeared a communication from Dr. John Wall, a physician, best known to later generations, perhaps, by a couplet about Malvern waters. Born in 1708, Wall practised during most of his life in Worcester. He issued in 1744 an essay on the use of musk in various complaints, and now pursued the subject in the magazine with an account of some cures performed, or alleged to be performed, with this substance as the principal ingredient in prescriptions. The first of the patients enumerated was troubled with "a terrible hickup." He was ordered a bolus, to be repeated after eight hours, consisting of musk, nitre, crabs' eyes, of each 12 gr., camphor one gr. (Incidentally, one wonders what the price of musk was then.) Another of Wall's patients was a child aged seven, who was satisfactorily restored after convulsions by a 12-gr. dose of musk. Two cases of hydrophobia, a disorder much discussed in the eighteenth century, were cured with the following dose: Musk gr. 26, native cinnabar and fine vermilion of each gr. 24 (*sic*). This last formula is copied from the magazine: whether anyone would now be found willing to prescribe, dispense or take such a dose is another question. How many of your readers have dispensed musk in recent years? I remember making pills containing it; the freeing of the mortar from the residual smell was not easy. Wall issued an account of Malvern waters in the year 1756; his publication reached a third edition in 1763.

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COMPANY NEWS

Leslie Taylor (Chemists), Ltd. (P.C.).—Capital £100. Leslie Taylor, M.P.S., director. R.O.: 62A Myrtle Street, Liverpool.

Joane Lawrence, Ltd. (P.C.).—Capital £100. To carry on the business of chemists, druggists, etc. Leslie S. Philcox, Howard W. Peters and George R. Peever, directors. R.O.: 324 High Holborn, London, W.C.1.

June (Nottingham), Ltd. (P.C.).—Capital £20,000. To carry on the business of manufacturing, wholesale and retail chemists, etc. James C. Bowran and Vera K. Bowran, directors. R.O.: 608 Mansfield Road, Nottingham.

Fempax, Ltd. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, etc. Ernest G. Manning, Florence L. Lonsdale and Leslie Codd, directors. R.O.: 47 Chestnut Avenue, Ewell.

Aspralgic Products, Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of ointments, etc. First directors are to be appointed. Solicitors: Arthur S. Joseph & Cates, 9 Ironmonger Lane, London, E.C.

Driffola, Ltd. (P.C.).—Capital £1,000. To carry on the business of dealers in pharmaceutical preparations, etc. Leslie J. Dibben and Constance I. S. Abrahams, directors. R.O.: 15 Caxton Street, London, S.W.1.

Thomas Robson, Ltd. (P.C.).—Capital £1,000. To acquire the business of chemists carried on at 41 Shield Street, Newcastle-on-Tyne. T. Allan Robson, Gladys Hoatson and Mary Maynard, directors.

Autoforce Manufacturing, Ltd. (P.C.). — Capital £100. To carry on the business of manufacturers of chemical and pharmaceutical preparations, etc. First directors are to be appointed. R.O.: 2 Clement's Inn, London, W.C.2.

Autoforce (Wholesale), Ltd. (P.C.).—Capital £100. To carry on the business of dealers in chemical and pharmaceutical preparations, etc. First directors are to be appointed. R.O.: 2 Clement's Inn, London, W.C.2.

Dolan (Retail) Chemist, Ltd. (P.C.).—Registered in Dublin. Capital £100. To carry on the business of chemists and druggists, etc. Thomas Lawrence Dolan, M.P.S.I., 58 Bolton Street, Dublin, and Edward Flynn, directors.

Scott & Clark, Ltd. (P.C.).—Capital £4,000. To acquire the business of A. G. Scott carried on at Silsden, and to carry on the business of chemists and druggists, etc. Alfred G. Scott, M.P.S., and Herbert L. Clark, M.P.S., directors. R.O: 53 Kirkgate, Silsden, Yorks.

Genatosan, Ltd.—The 14 per cent. preference share dividend, due March 14, is not to be paid.

Callender & Tully, Ltd.—The company has acquired the whole of the share capital of Red Band Chemical Co., Ltd., 16 Young Street, Edinburgh, 2, as from April 1, and will carry on the business from 9 Victoria Street, Edinburgh, 1.

Greef-Chemicals Holdings, Ltd.—The directors propose that the capital be increased to £325,000 by the creation of 300,000 additional ordinary shares of 5s. each. It is the intention to offer these to ordinary-stock holders in proportion to their present holdings of ordinary stock.

Boots Pure Drug Co., Ltd.—Directors announce that they will not recommend a total distribution exceeding that of 1947. For the year ending March 31 two interims of 10 per cent. each have already been paid. This is the same as for the previous year, when a final dividend of 20 per cent. was added.

BUSINESS CHANGES

Vitamins, Ltd., have appointed Mr. A. K. Edwards as their representative in the Eastern Counties.

Mr. Edwin Harry Dunning, M.P.S., and Mr. Robert Robertson, M.P.S., have been granted permission by the Royal Court of Guernsey to practise as pharmacists on the island.

The head office of A. J. North & Co., Ltd., manufacturers and distributors, South Africa, is 71 Hout Street, Cape Town. Messrs. T. D. E. North and R. E. Marsh, directors, will be in England during April. They may be contacted through the editorial department, The Chemist and Druggist.

Stanley R. Evans, Ltd., is the new title adopted by A. W. Beresford, Ltd., 414 Nechells Park Road, Birmingham, 7. The company has recently acquired as a branch the pharmacy at 45 Warwick Road, Birmingham, 27, formerly carried on by Mr. F. H. Biddle, M.P.S.

Meggeson & Co., Ltd., have appointed Mr. Robert P. Small, M.P.S., sales manager of the company from April 1. Mr. Small, who is secretary of the Romford Branch of the Pharmaceutical Society, is at present an executive at the Dagenham offices of Pharmaceutical Specialities (May & Baker), Ltd., for which company he was formerly a representative in Northern Ireland.

A. Boake, Roberts & Co., Ltd., announce that their accounts department is returning to the company's works at Carpenters Road, Stratford, London, E.15 (Telephone: Maryland 5511) on April 3. The company's shipping department is returning to Stratford on April 10. The Abrac sales department remains at Ellerslie, Buckhurst Hill, Essex (Telephone: Buckhurst 1133).

LEGAL REPORT

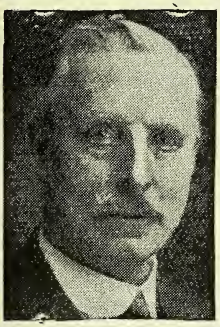
Discharged After Appeal.—Because the indictment was wrongly framed, the Court of Criminal Appeal on March 22 allowed the appeals of Joseph West, Alfred Stafford Northcott, Adrian Weitzman and Ellis Philip White, who had been on bail pending their appeal against sentences of penal servitude or imprisonment on charges of conspiracy (see *C. & D.*, 1947.II.562). The conviction and sentence of David Weitzman had been previously quashed on a different ground (*C. & D.*, March 20, p. 365).

BIRTH

WILLIAMS. — On March 18, Mary, the wife of Lionel Edward Williams, M.P.S., The Wellsway Pharmacy, 23 Wellsway, Bath, Somerset, of a son.

DEATHS

KIRKPATRICK.—At his home, 136 Sandown Road, Belfast, on March 17, Mr. David Lawson Kirkpatrick, M.P.S.N.I., first secretary of the Pharmaceutical Society of Northern Ireland. Mr. Kirkpatrick held the secretaryship for twenty-one years before relinquishing the post in 1946 and was perhaps the most widely known pharmacist in Northern Ireland.



He served his apprenticeship with Mr. Samuel C. Nicholl, Connswater, Belfast, for whom he afterwards acted as manager, and qualified (under the Pharmaceutical Society of Ireland) in 1895. For a period he was dispenser at the Templemore Avenue dispensary, Belfast, before becoming Irish representative of Burroughs Wellcome & Co., whom he also represented in the United States for a number of years. On his return to Ireland Mr. Kirkpatrick became agent for H. & T. Kirby & Co., Ltd., before being appointed secretary of the Society in 1925. In this position he played a leading part in the development of pharmacy in Northern Ireland, up to and including the passing of the Medicines, Pharmacy and Poisons Act, 1945. He was one of those responsible for securing reciprocity between his own Society and the Pharmaceutical Society of Great Britain. On his retirement in 1946 he received a presentation from the members of the Society, and many tributes were paid to his pioneer work for the profession. He is survived by his wife, two daughters and a son (Lieutenant-Commander (A) J. F. Kirkpatrick, Northern Ireland representative of H. & T. Kirby & Co., Ltd.). At a meeting of the Council of the Pharmaceutical Society of Northern Ireland on March 19, the president (Mr. John McGregor) spoke of the deep sense of loss felt at the death of Mr. Kirkpatrick, who had served the Society faithfully and well and whose zeal was always shown in upholding the interests and the rights of the profession. Largely owing to his work, said the president, the Society was in its present healthy state. Members of the Council regretted that their former colleague had had only a short enjoyment of his well-earned retirement, and extended their deepest sympathy to members of his family. Messrs. C. Abernethy and H. F. Moore also paid tribute to Mr. Kirkpatrick, and members stood in silence. Messrs. McGregor and Moore represented the Society at the funeral, which took place at Killinchy, co. Down, on March 20.

CLEAVE.—On March 5, Mr. Thomas William Cleave, M.P.S., 66 Berriedale Drive, Sompting, aged seventy-four.

COATES.—On March 17, Mr. Walter Coates, aged sixty. Mr. Coates qualified as a chemist and druggist in 1903. He became manager to Mr. T. O. Barlow (now of Ryde, Isle of Wight) when the latter started his business in Southsea, Hants, in 1905; he had formerly been associated with Mr. Barton at Basingstoke. For six years the two men lived and worked together, watching the business grow, when Mr. Coates was stricken with an illness which left him a lifelong cripple. In spite of the severe handicap he refused all thought of retirement and remained manager even after Mr. Barlow himself had retired. Two years ago he again became ill, but resumed duties in the business that had become such a great part of his life. He was found lying on the floor of the shop on March 17 and died on the way to hospital.

DEWAR.—Suddenly, at Greenock, Renfrews, on March 18, Mr. Alexander Owen Cameron Dewar, M.P.S., 127 West Blackhall Street, Greenock.

EDWARDS.—On February 28, Miss Nora Nuttall Edwards, Highbrake, Middle Green Road, Slough, Bucks, aged fifty-four. Miss Edwards qualified as a chemist and druggist in 1918.

GILCHRIST.—At 36 Wellbrae Terrace, Aberdeen, suddenly, on March 9, Mrs. Ella Mary Beaton Gilchrist, widow of the late Mr. Adam Gilchrist, M.P.S., Huntly.

HICKIN.—On March 5, Mr. William Edward Hickin, M.P.S., Y Garth, Lixwm, Holywell, Flints, aged eighty-four.

LILLIS.—On March 6, Mr. Joseph Lillis, M.P.S., 66 Middlewood Road, Sheffield, 6. Mr. Lillis qualified in 1923.

TRIBUTE TO NOBEL PRIZE-WINNERS

THE industrial research committee of the Federation of British Industries held a special meeting at the Royal Institute, London, on March 19, in honour of the British winners of the Nobel prizes for chemistry and physics, 1947 (Sir Robert Robinson, F.R.S., and Sir Edward Appleton, F.R.S.). SIR FREDERICK BAIN (president of the Federation) said that the meeting had a special significance, for not since 1904 when Ramsey and Rayleigh received the awards had the two prizes come undivided to Britain.

SIR ROBERT ROBINSON, called upon to address the meeting, regretted that, since the war, there had been hardly enough building up of the British chemical industry. He appealed for greater facilities for fundamental research in organic chemistry. Britain, he said, was spending too much of its little pocket money on cake and not enough on the bread and butter of research. He suggested four remedial steps —higher pay for science teachers; enlargement and modernisation of university laboratories; the development of industrial research laboratories; and expansion of technical colleges. SIR EDWARD APPLETON said that Britain needed in peace the same sense of partnership among management, science and other branches of industry, including labour, as had grown up among the General Staff, scientists and production men during the war.

Tributes to the prize-winners were added by SIR WALLACE AKERS (director of research, Imperial Chemical Industries, Ltd.) and SIR WILLIAM LARKE (chairman of the F.B.I. industrial research committee).

NICOTINIC ACID IN CHILBLAIN TREATMENT

FROM experiments on the effect of heat and cold on the circulation of the hand, Gourlay ("British Medical Journal," February 21, p. 336) propounds a theory to explain "the many and varied anomalies of chilblain production." Exposure to cold, he suggests, results in vasoconstriction of the subcutaneous arteries and interference with cellular metabolism, causing irritating metabolites to be formed. If the constriction relaxes on warming, the metabolites are removed. If, however, the constriction does not relax within a reasonable time, more metabolites are formed at the site (warmth increasing the rate of cellular metabolism), causing irritation, swelling of the dermis and interference with venous drainage, to produce a chilblain. To test the theory, he made use of the vasodilator action of nicotinic acid, giving a basic dose of 50 mgm. (25 mgm. for a child) three times a day immediately after meals. Fifteen out of twenty-seven cases quoted were cured, and eleven showed improvement. All but one of the patients described the treatment as the best they had tried. No prophylactic value, says the author, subsists in administering nicotinic acid for a long time before the chilblain season, but treatment should start at the first sign of a chilblain. It should be continued, possibly at a reduced dosage, until the chilblain season has passed.

INQUESTS

Barbiturates from Dispensary. — At an inquest at Battersea, London, recently, on Mr. Leslie Douglas Inman, M.P.S., 546 Streatham High Road, S.W.16, it was stated that after he had been taken to hospital, where he later died, the poison cupboard of his dispensary was found open, and that two empty Luminal bottles were in the sink. A verdict was returned that Inman took his life while the balance of his mind was disturbed.

Phenobarbitone Death.—At an inquest at Grimsby recently on a thirty-year-old man who had been suffering from epileptic fits, the wife stated that she had noticed her husband was ill and that an empty pill box was in the bedroom. Mr. James Smith, M.P.S., said he had handed the man a box of 100 phenobarbitone tablets, on a doctors' prescription, prior to his death. The man had obtained supplies of these tablets "for a long time." The coroner stated that the man might have taken the tablets by accident.

Patients May Forget Dose.—At an inquest at Londonderry, recently, on a thirty-eight-year-old man who died in hospital after being admitted unconscious following an overdose of butobarbitone tablets, the jury returned a verdict that death was due to poisoning caused by accidentally exceeding the dose. The jury thought a supply of forty-eight tablets, which the man had been given, was too large. A doctor said death was consistent with an overdose of the drug. A condition might arise in which a person, having taken some of the tablets, would forget that he had done so, and take more. That condition might have occurred in the present case.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

On March 18 Mr. Peter Freeman asked the Home Secretary how many cases had occurred during 1947 of dangerous drugs being lost or left by doctors unprotected in cars or elsewhere and reported to the Metropolitan Police. Mr. J. Chuter Ede said: The records of the Metropolitan Police show that four losses and sixty thefts of this nature were reported in 1947. When further asked by Mr. Freeman whether this would not be a very good time to suggest to doctors that they should be very careful what they do, he replied: "Far be it from me to get involved in a controversy with doctors."

Doctors' Conditions under N.H.S.

Sir Wavell Wakefield asked the Minister of Health if he was proposing, under the National Health scheme, that medical practitioners would be entitled to a five-day week, with extra pay for overtime, Sunday work and night work, together with "danger money" when attending infectious diseases, for inclusion in their terms of remuneration. Mr. Aneurin Bevan replied that the terms of service of general practitioners under the National Health Service were set out in the National Health Service (General Medical and Pharmaceutical Services) Regulations, 1948, which were now before Parliament.

Mrs. Mann: Could the Minister consider adding the question of payment by results?

Fuel and Transport Charges

The Prime Minister was asked by Air-Commodore Harvey if, in view of the Government's request to industry for the stabilisation of prices, he would give an assurance that no further increases would take place in the prices of coal, gas, electricity and railway freight and passenger charges.

Mr. Attlee: The Government White Paper on personal incomes, costs and prices has been brought specially to the attention of the boards of socialised industries, and Air-Commodore Harvey can rest assured that they and the Ministers concerned will act in accordance with the principles of that Paper.

Air-Commodore Harvey complained that the Prime Minister had not answered the question. "How can you expect industries to do what you want them to do if you do not set them a lead by means of the Government nationalised industries?" he said. Mr. Attlee replied that the matter was one for the socialised industries and the Ministers concerned. "I have not indicated that they have to take any different step."

Streptomycin Stocks

The Minister of Health was asked by Mr. Bowden if streptomycin was now being produced in the United Kingdom; whether stocks were still being imported; and what stocks were now held in the United Kingdom in comparison with 1947.

Mr. Bevan: Production on a small scale will start shortly, but imports are still necessary. Stocks on September 1, 1947, were 25 kilos, and on March 1, 1948, 36 kilos.

National Medical Services

Asked by Mr. A. C. Bossom if he was yet satisfied that he would be able to provide the medical services proposed in the Health Service Act, Mr. Aneurin Bevan replied: "I certainly see no reason why the service should not start in the manner always contemplated."

COMING EVENTS

Tuesday, March 30

Plymouth Branch, Pharmaceutical Society, Goodbody's Rooms, Marina Place, Mutley, at 7.30 p.m. Film show.

Wednesday, March 31

Liverpool Chemists' Association, Adelphi Hotel, at 7 p.m. Ninety-ninth annual dinner.

Sheffield Branch, Pharmaceutical Society, Metallurgical Club, at 7.45 p.m. Mr. C. Beaven, Ph.C., on "The Riddle of Allergy" (illustrated).

Thursday, April 1

Durham County Branch, Pharmaceutical Society, Pattinson's Café, Old Elvet, Durham, at 7.30 p.m. Mr. A. F. Park, F.R.P.S., on "Nature Rambles."

Friday, April 2

South-West London Chemists' Association, Carpenter's Restaurant, 3 The Pavement, London, S.W.4, at 7.30 p.m. Mr. C. L. Clarke on "The Wonderland of Photography" (illustrated).

Birkenhead and Wirral Branch, National Pharmaceutical Union, Central Hotel, Clifton Crescent, Birkenhead, at 7.45 p.m. Mr. G. A. Mallinson, O.B.E. (secretary, N.P.U.) on "The National Health Service."

Monday, April 5

Southampton Branch, Pharmaceutical Society, Polygon Hotel, at 7.30 p.m. Annual meeting.

West Kent Branch, Pharmaceutical Society, Central Library Hall, Beckenham, at 8 p.m. Address by Mr. F. C. Wilson (a member of the Society's Council).

TRADE NOTES

Bonus Offer.—An offer of fourteen to the dozen Janssen's herbal tablets is made in this issue by Dr. Janssen, Ltd., 52 Baker Street, London, W.1.

Display Material.—G. T. Fulford & Co., Ltd., offer display material (showcards and window stickers) for Dr. Williams pink pills, and a display carton with dummy tray for Bablets (for fretful babies).

Curare Source.—Biddle, Sawyer & Co., Ltd., 4 Grafton Street, London, W.1, offer to supply tubo curare and *d*-tubocurarine chloride ready prepared for ampouling and guaranteed to conform to all recognised standards.

Prices Reduced.—Percenta, Ltd., manufacturers of containers, 130 Tooley Street, London, S.E.1, have marked down most of their prices, in some instances quite considerably, following the recent appeal by the Chancellor of the Exchequer.

Counter Display Stand.—Rodmill Chemical Co., Ltd., manufacturing chemists, 49 St. Anne Street, Liverpool, 3, have available a new counter display stand for Rod-Antu ready-prepared rodenticide, to link up with national advertising now in progress.

Selling Agency.—From April 1, Keldon, Ltd., Wadsworth Road, Perivale, Middlesex, will act as selling agents for both Optrex, Ltd. (manufacturers of Optrex and Famel specialities), and Perivale Laboratories, Ltd. (manufacturers of Quant's witch hazel and Perivale chilblain ointment).

Northern Ireland Wholesalers.—Harold Mitchell & Co., Ltd., Grosvenor House, 321 Grosvenor Road, Belfast, have issued a booklet, illustrated in full colour, announcing that the company carries a comprehensive range of the medical products of Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1, Goya perfumes and cosmetics, and sundries. Recently Messrs. Mitchell have opened a wholesale drug department.

Scottish Distributors Unchanged.—Southern Manufacturing Co., Ltd., 214 West Regent Street, Glasgow, C.2, announce that the appointment of new distributors of Pink Ribbon shampoo in England, Wales and Northern Ireland has not affected the company's position as distributors in Scotland; from the company also the entry forms for the "Name the Hair-styles" competition may be obtained by Scottish retailers.

Retailers' Needs Met. — The package for a new Petal Dust face powder, issued by Jane Seymour, Ltd., 21 Grosvenor Street, London, W.1, has been designed both with an eye to its sales appeal (the shade of green being that incorporated throughout the Jane Seymour range) and to enable the retailer to stack the boxes one on top of the other as required, and to clean the plastic cover if necessary. Petal Dust is to be available for both home and export markets in twelve shades and in two weights: Dry/normal and "greaskin."

Standards Year-book.—The 1947 year-book of the British Standards Institution, 24 Victoria Street, Westminster, London, S.W.1, which has just been published, gives a subject index and synopsis of each of the 1,400 current British Standards. The year-book includes lists of members of the General and Divisional Councils and the Industry Committee of the Institution and other useful information. Copies, price 3s. 6d. post free, may be obtained from the Publications Sales Department of the Institution.

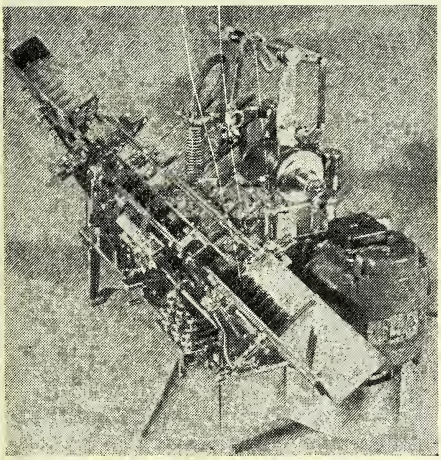
Self-induced Analgesia.—British Trilite, Ltd., 184 Horninglow Street, Burton-on-Trent, are manufacturers of the recently introduced Trilite inhaler, a simple and portable apparatus for self-induction of analgesia. Self-induced anæsthesia cannot be produced by the inhaler, which is therefore suitable for use by unskilled personnel in mines, ambulances, factories and first-aid parties. The illustration shows the normal nasal piece; special mask adaptors for surgical and dental use are also available.

Dextrorotatory Amphetamine Sulphate.—Damancy & Co., Ltd., Harrow, Middlesex, are offering, in the form of the company's speciality Dellipsoids, dextrorotatory amphetamine sulphate "at a price that allows the compound to be freely prescribed and used." Dextro-amphetamine sulphate, a stimulant to the central nervous system, is stated to have a comparatively slight peripheral action, giving a marked improve-

ment in the patient's outlook and a sense of general well being, with increased capacity for physical and mental activity; banishing fatigue, exhaustion and desire for sleep. A leaflet giving contra-indications may be obtained, with strengths, packings and prices, from the company.

Export Developments.—It is announced that control of the old-established business of Hough, Hoseason & Co., Ltd., Atlas Laboratories, Levenshulme, Manchester, 19, manufacturers of pharmaceutical preparations, medical specialities, drugs and galenicals has passed to Mr. W. Sim Harris, F.C.S. and Mr. A. H. Fennall, M.P.S. respectively. Under the new management the company is actively extending its export trade and in pursuance of this policy has taken space at the permanent export showroom operated by International Business Services, Ltd, 14 Arlington Street, London, W.1 (see *C. & D.*, March 13, p. 334), at which it is the only pharmaceutical exhibitor. Overseas buyers will be welcome at the showroom.

Ampoule-filling Machines.—A. J. Manning, 2 Bridge Road, Wembley Park, Middlesex, offers a range of automatic ampoule-



Automatic ampoule filling and sealing machine

filling and sealing machines, small bottle filling machines and measuring pumps, details of which may be obtained on application. The machine illustrated is adaptable for ampoules from 1 c.c. to 10 c.c.

Sales Force. — S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts, announce the following appointments (as from March 1) to their special new representative force: Mr. F. C. Adam, 90 Bulwer Road, New Barnet (Middlesex, Hertford, Essex, and London north of the Thames); Mr. E. H. Still, Springfield, Hedsor Road, Bourne End, Bucks (Surrey, Sussex, Kent, and London south of the Thames); Mr. T. G. Jones, Abercray, Sherborne Avenue, Cyncoed, Cardiff (Wales, English Border Counties, including Warwicks, Worcs and Staffs); and Mr. H. C. Welsh, 11 Warwick Close, Heaton Chapel, Stockport, Ches (Yorks, Lancs, Cumberland, Westmorland, Northumberland and Durham).

Proprietary Articles Trade Association

Alterations to Protected List (Part 1).—*Edwin Burgess, Ltd.*, Prices in Northern Ireland: Burgess' Lion pills and ointment, 10s. doz., tax 33⅓ per cent., inclusive retail price 1s. 5d.; 24s. doz., tax 33⅓ per cent., i.r.p. 3s. 5d.; 8s. each, tax 33⅓ per cent., i.r.p. 13s. 6d.; 14s. 10d. each, tax 33⅓ per cent., i.r.p. 26s. 6d.

James Woolley, Sons & Co., Ltd., Glucosol, 20s. doz., 2s. 6d. (exempt from tax). Deposit charge of 3s. doz. added to invoices for cost of bottles. Retail price includes a deposit of 3d. on each bottle.

FIFTY YEARS AGO

A New Pharmacopœia

(*From the C. & D., March* 26, 1898)

A NUMBER of wholesale druggists have written to us this year asking if there is any possibility of their obtaining early copies of the new British Pharmacopœia, and they have pointed out to us the disadvantages to them of not being represented on the committee of compilation, as they may be considerably behind those houses which are fortunate in having partners associated with the General Medical Council in this matter. Apart from this consideration, there is the fact that if wholesale houses are not aware until the Pharmacopœia is actually published what alterations have been made in it, and what new preparations are recognised, they will be considerably handicapped in supplying their customers. The matter has been laid before the Executive Committee of the General Medical Council, and we are able to state that, after fully considering the matter, the committee have resolved as soon as the book is printed, and some weeks before actual publication, to have in the offices of the Council, Oxford Street, W. (not before March 25), copies of the work for inspection by properly accredited representatives of detail, wholesale and manufacturing chemists.

P.A.T.A. ANNUAL REPORT

THE fifty-second annual report of the Proprietary Articles Trade Association, to be submitted to the annual meeting of the Association on April 8, states that at the end of 1947 membership of the manufacturers' section was 402 (an increase of twenty-one), and of the wholesale section, fifty-nine (an increase of two). In the retail section, progress was maintained, subscriptions being paid to cover 10,777 premises registered under Section 12 of the Pharmacy and Poisons Act, 1933, and premises of a small number of unqualified retailers enrolled before entry was restricted to chemists. Chemists in retail business who are not at present members are invited to join the section either direct or through the National Pharmaceutical Union, whose Executive is thanked in the report for having collected the major proportion of retail subscriptions.

The Council has submitted written and oral evidence to a committee set up by Sir Stafford Cripps under the chairmanship of Mr. G. H. Lloyd Jacob, K.C., to consider the practice by which minimum wholesale and retail prices or margins for the resale of goods are fixed by producers, and to report whether any measures are desirable to prevent or regulate its continuance.

Purchase Tax

Increased rates of purchase tax imposed in the November Budget affected the price of every taxable proprietary article in the P.A.T.A. list, causing innumerable difficulties particularly for retail distributors. It was found impracticable to arrange for the publication in the pharmaceutical Press of all P.A.T.A. price changes caused by purchase tax increases, or for the Association to issue an emergency list of the new protected prices.

The Council was notified by the Central Price Regulation Committee, says the report, that prices published in the P.A.T.A. list would continue to be accepted as "permitted prices" on the understanding that before they were published manufacturers gave an undertaking that any increases were calculated in accordance with the terms of the Prices of Goods Act, The Central Committee had pointed out that, in giving the undertaking, manufacturers were expected to bear in mind the arrangement for reduction of retail discounts when manufacturers' and retailers' selling prices were increased, as set out in a table attached to the memorandum "Prices of Goods Act: Its Application to Increases in Prices of P.A.T.A. Articles." Copies of the memorandum, revised in March 1947 to show the special arrangement sanctioned by the Central Committee for pricing toilet preparations were circulated to all members of the manufacturers' section.

Arrangements for the disposal of surplus stocks of P.A.T.A. articles caused comparatively little disturbance to normal trade distributors or to the manufacturers concerned.

In 1947 the protected list was for the first time divided into two sections, with medicinal and surgical preparations in part 1, and food, toilet and other products in part 2. In view of the uncertainty of the purchase tax position, the Council decided to postpone printing of the 1948 list until the terms of the April Budget were known.

Other Activities

Many complaints about the allowance by co-operative societies of dividend on price-maintained goods were dealt with, continues the report. A large number of traders on the "stop list" had signed the appropriate agreement and had been removed from the list. The Association's outdoor staff paid about 2,000 investigation and inquiry calls and made a similar number of test purchases. The report recalls the resignation from the Council of Messrs. J. Milner and J. D. Bohn (both past-presidents of the Association). In recognition of their services both were elected to honorary membership of the Council. A vacancy in the retail section caused by the resignation of Mr. Milner was filled by the co-option of Mr. C. H. Foster. The report also records the deaths of Mr. J. Godber and Mr. N. N. Armitage (former members of Council and presidents of the Association) and of Dr. M. V. Hunter.

Membership subscriptions in 1947 totalled £10,726 (an increase of £570). Manufacturers subscribed £3,411, wholesalers £3,273, and retailers £4,041, each section showing an increase. Donations from manufacturers and retailers amounted to £887. The balance of income over expenditure was £254.

Terms Confused.—A spiv suffering severe stomach pains went to his doctor, who told him: "I fear you've twisted yourself." "What me?" he replied. "Impossible!"—From the London "Star."

LONDON CHEMISTS' GOLFING SOCIETY

THE first post-war dinner of the London Chemists' Golfing Society was held in London on March 17, the president (Mr. F. E. Lever) in the chair. He was supported by Messrs. G. T. Morson and Phillip Royle (vice-presidents), Mr. W. M. Ballantyne (secretary), and a representative gathering of members. The toast of "The Society" was coupled with that of "The President" and the proposer, Mr. D. T. Jones, said the members were looking forward with pleasure to the meetings which had been arranged for the season now opening. They were all delighted that their president had made a good recovery from his recent illness, and was able to be with them on this occasion. In his response, MR. F. E. LEVER thanked the members for their good wishes, and said he had received news recently from Mr. T. W. D. Turner, who, although seventy-three years of age, had won one of their competitions in 1947. Mr. Turner was now in America. He regretted that Mr. Oscar Shaw, one of the Society's vice-presidents, was unable to be with them owing to ill health, and he knew they all missed the presence of Mr. Jack Jones, one of the founders of the Society.

Trophies of the London Chemists' Golfing Society, valued at £700, which had been in "cold storage" during the war, were on show at the Society's annual dinner held in London

Forthcoming Fixtures

MR. W. M. BALLANTYNE (honorary secretary), in the course of his report, informed the members that the Society had been founded in 1909, with membership open to retailers, wholesalers and manufacturers connected with pharmacy; new members from the trade would be welcomed. The Society had a full list of tournaments, matches and competitions for the coming season, with fixtures at many courses in the home counties including Crews Hill, Finchley, Fulwell, Brookman Park, Sunbridge Park, Sandy Lodge, Sudbury and Old Ford Manor. Meetings were to be held on Wednesdays and Thursdays this season. Mr. Ballantyne appealed to the members to enter for the competitions for the valuable trophies presented by firms in the drug trade, whose generosity was greatly appreciated. Other speakers included Mr. Geoffrey T. Morson and Mr. Phillip Royle.

Winners of Trophies

A very successful and enjoyable evening was concluded with the presentation of the Society's trophies and prizes by the president to the following winners: *Burgoyne,* Dr. W. Clark; *Thomson,* Dr. W. Clark; *Yardley,* D. T. Jones; *Professor Flint,* J. H. Redfern; *British & Colonial Druggist,* E. G. Ince; *Yeast Vite,* E. G. Nice; *D. & W. Gibbs,* J. Usher; *Leichner,* G. H. Hankinson; *Morny,* R. W. Poole; *Kerfoot,* L. W. Lester; *Jubilee,* T. W. D. Turner; *Mentholatum,* R. N. Hood; "*4711,*" R. R. Gordon; *Hepburn,* R. R. Gordon; *Captain's,* R. Cobban; *Harker Stagg,* B. F. Tisdall; *Sanger,* T. M. Hunnings; *Arthur H. Cox,* G. T. Morson; *Society,* C. H. Maile.

TOILET PREPARATIONS FOR THE HOME MARKET

THE value of existing manufacturers' licences for the supply of toilet preparations to the home market is to be increased from April 1 by 12½ per cent. of each manufacturer's "standard period" figure, with a minimum increase of £437. The increase is an interim arrangement by the Board of Trade, and will be effected by the issue of amendments to existing licences valid from April 1 to June 30.

From July 1 all registered manufacturers are to receive basic licences for six months at an increased rate of either (a) 50 per cent. of their "standard period" figure (with a minimum increase of £437) or (if preferred) (b) 37½ per cent. of their "standard period" figure plus a quarter of the bonus earned during the last calendar year for which returns are available. [Applications for method (b) must be made to the Board before June 1.]

From July 1 the "automatic" bonus is to be for all manufacturers at a flat rate of £1 additional home trade for each £1 of achieved exports. Where, in any three-monthly period from July 1, exports exceed 10 per cent. of the manufacturers' "standard period" figure, an additional bonus at the rate of £1 home trade for £1 exports may be claimed; where exports exceed 20 per cent. of the standard figure, the additional bonus is at the rate of £2 for £1. Licences for such additional bonuses are to be granted only on application.

No Extra Raw Materials

Minimum licence holders may, if they wish, take advantage of the arrangement (b) above by applying to receive a licence of £750 (75 per cent. of the new minimum licence value of £1,000 for six months) plus a quarter of the bonus earned during the year ended December 31, 1947. Firms at present licensed to supply retailers only (licence serial number 259) are to be issued with licences for £500 for six months. It is not expected that additional raw materials, packaging, etc., will be available to the industry, says the Board of Trade, and no claims for additional supplies of such materials, based on the permitted increase in home trade, will be entertained.

SECOND ANTI-MIDGE REPORT

IN a second report published recently on confirmatory work done in Scotland on the control of midges, a subcommittee appointed by the Department of Health for Scotland concludes that dimethylphthalate (D.M.P.) is an effective repellent against midges when used in a strength of at least 40 per cent. by volume in a stable cream or paste. Better results, however, were obtained with a wide-meshed veil impregnated with D.M.P. (see *C. & D.*, 1947.II. 169). The slight smarting produced by the cream and the almost negligible impairment of vision associated with the veil are considered far outweighed by the high efficiency as midge repellers. Pharmaceutical development of creams can be left to the manufacturers, states the report, but marketed products must contain sufficient D.M.P., and must prove satisfactory in field tests. Creams with very high proportions of D.M.P. and made with magnesium and other stearates, however, tend to be more irritating to the skins of many people. The report complains that a few manufacturers of D.M.P. cream have not adhered to the essentials of the formula already issued by Committee and that in consequence "some products containing too little D.M.P. were disappointing in use." So far, five species of biting midges have been classified in Scotland as persistent attackers, of which *Culicoides impunctatus* is the most common and most vigorous. Six other species have been found to be occasional biters. Investigations were made, chiefly in the Trossachs area, at the height of the midge season (July-September). Of forty-one estimations, each covering a period of half-an-hour, the average rate of attack over the whole series was about 150 midges per hour per person.

Midge Trap

A special piece of apparatus used in the investigations was a midge box-trap. This consisted of a box in the bottom and sides of which were inserted a number of glass vials. When the "box" was placed upside down on breeding sites, midges emerging from the soil covered by the trap were attracted to the light and entered the glass vials through perforated celluloid cones. Their return to the dark interior of the box was prevented by the celluloid cones which acted as valves. D.M.P., the report states, also appears to be a powerful repellent to ants. Certain insecticides may have repellent value.

NEW BOOKS

Chemistry Made Easy (set of four volumes).—Cornelia T. Snell, Ph.D., and Foster Dee Snell, Ph.D. 8 in. x 5¼ in. Pp. 1,214. Volumes 1, 2 and 3, 14s. each; volume 4, 15s. D. Van Nostrand Co., Inc., New York, U.S.A.; (in Britain) Macmillan & Co., Ltd., St. Martin's Street, London, W.C.2. The present is the sixth printing since 1943 of a series of books in which the authors present the fundamentals of chemistry in a form suitable for students under a minimum of expert tuition. Intended primarily for persons studying commercial chemistry, the series concludes with a fourth volume (pp. 542) that is, in effect, a reference book of the composition of compounds and of animal and vegetable products likely to be met with in commerce. The volume therefore will be found of use to persons engaged in the industry as well as to students. Volume 1 (pp. 184) deals with fundamental principles; volume 2 (pp. 232) with inorganic chemistry (including radioactive elements); and volume 3 (pp. 256) with organic chemistry, including the alkaloids, proteins and vitamins. The books are liberally illustrated, and subject matter is closely related to industrial applications. Other notable features include questions, some containing "missing words," given at the end of chapters, and designed to enable the student to test his own knowledge.

Humour and Humanism in Chemistry.—John Read, F.R.S. 8¾ in. x 5½ in. Pp. 388. 21s. G. Bell & Sons, Ltd., Portugal Street, London, W.C.2. So wide a field is traversed within the covers of this 1¾ in. thick volume, from alchemy to war gases, and from ancient Egypt to B.B.C. science broadcasts, that the title is, perhaps, as accurate as any title could be. The humour, however, is mainly of the kind usually preceded by the adjective "good," and the humanism has, apparently, little to do with Huxleyite beliefs. The author, a professor of chemistry at St. Andrews, and formerly at Sydney universities, a former pupil of Werner and associate of Pope, has contrived to retain a romantic view of his science throughout a busy lifetime. His benevolence towards the alchemists is carried over to his readers, who may easily find themselves bemused into accepting a verdict by Kopp (1843) on the recorded transmutation of mercury into gold by van Helmont in 1618: "This occurrence is to be numbered with many others in the history of science, in which it is almost as hard to assume the existence of a deception as to accept a statement." By easy stages the author passes from alchemy to true chemistry, taking in Glauber, le Febure, Boerhaave, Black and Mrs. Marcet (authoress of the accurate and entertaining "Conversations on Chemistry" (1805)), and pausing at some of the great teachers of chemistry: Liebig, Baeyer, Bunsen, his own Werner, and Pope, about all of whom he has illuminating and amusing anecdotes to tell. One, which concerns a pharmacy student, may be quoted. The candidate was being examined by Baeyer, and survived the first few questions.

> "Then followed a stereotyped question on the analysis of ferrous compounds, which everybody had to answer. 'What do you need for it?' 'Potassium permanganate, Herr Professor,' came after a little hesitation. 'Good, what else?' A pause. The Professor began to get impatient, the candidate looked round in despair, and the ominious tapping of the pencil began. A couple of minutes more and the aspirant's name would be lost to the list of Bavarian apothecaries for ever. 'Then,' says Rupe [the narrator, Baeyer's assistant] 'I took the large stock-bottle bearing the label SULPHURIC ACID from its place and held it towards the poor culprit. Baeyer had his back to me also, and I sent up an urgent prayer to Heaven that "the Chef" would not turn round and that the candidate might not be so demoralised as to make this help come too late. Suddenly a gleam of understanding appeared on his face, and at the very last moment he came out with: 'Sulphuric acid, Herr Professor.' 'Ah, yes, you know it well enough' . . . soon afterwards he completed his qualification. But it was evident he had not guarded his tongue for from that time onwards I stood in the highest regard of the whole pharmaceutical fraternity of Munich."

A chapter headed "Chemistry Reaches the Australian Bush" is largely devoted to the eucalypts, and the entertainment is rounded off with a "chemic drama in one act": "The Nobel Prize." The illustrations are numerous and good.

Memoranda on Medical Diseases in Tropical and Sub-tropical Areas. — War Office. 8½ x 5¼ in. Pp. 396. 7s. 6d. H.M. Stationery Office, Kingsway, London, W.C.2. The eighth edition of this collection of memoranda contains a number of new features, including notes on sulphonamide drugs, Paludrine, and the use of DDT. Illustrations have been brought up to date, and increased to 113, and many sections have been rewritten in the light of knowledge gained during the 1939-45 war. Intended primarily for army medical officers, the notes deal alphabetically with diseases and allied problems. Methods of destruction of the numerous insect pests mentioned will be of particular value.

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VOL. CXLIX MARCH 27, 1948 No. 3553

What the Branch Representatives Will Discuss in May

MEMBERS of the Pharmaceutical Society have now had a fortnight in which to study the resolutions that are to come before the Branch Representatives' meeting on May 20, and some branches may already have set to work on framing amendments. These should be in the hands of the deputy secretary of the Society by April 15.

The subjects of the resolutions fall into three main groups. There are four motions on matters connected with the Society's publications, three on its finances, three on education, plus a solitary motion urging the end of purchase tax on drugs.

The Society's Publications

Examining each group in turn we find that two branches are urging that the Society's weekly publication should devote more space to recording the activities of branches. One of the movers is Dartford, whose similarly framed resolution was shelved at Torquay last September for want of a Dartfordian present to move it. The branch is unlikely to fail a second time in this way; however, as if to make assurance doubly sure that the matter will be fully discussed, Liverpool Branch has had a similarly worded resolution put on the agenda. The *C. & D.*, as an independent organ which endeavours (within the limits of the paper quota) to give adequate publicity to branch and Association affairs, will hardly be expected to join any agitation to make its official competitor more competitive, but it has appeared to us that the "Journal" sometimes devotes less space to the activities of branches than do the majority of official organs in similar circumstances. Mansfield Branch desires the circulation to branch secretaries of the "Quarterly Journal of Pharmacy and Pharmacology"—a proposal that is unlikely to arouse any hostility. Birkenhead makes more radical suggestions in recommending that the British Pharmaceutical Codex should be divided into two volumes: Monographs and formulary, and that proprietaries should be mentioned in the monographs where appropriate. The first device would undoubtedly increase the ease of handling the B.P.C., which otherwise is in danger of becoming unwieldy; even the 1934 Codex was a somewhat corpulent tome. Against the consideration of convenience, there might be difficulties in estimating the likely sales of each volume, and if either should prove relatively unwanted, the Society's Publications Department might be faced with a loss of revenue. As to the inclusion of proprietaries, the B.P.C.'s history is that, in the volumes of 1907, 1911 and 1923, references to trade names were made in footnotes to the appropriate monographs, and occasionally within the monographs, and a warning was given in the preface that "it is not permissible to substitute a similar product to which that trade name does not legally apply." In 1934 trade names were omitted from the monographs, but a section (Appendix XIV), "Substances with Proprietary Names," gave short notes on proprietary products, including the makers' names. It may be thought that the "Extra Pharmacopœia" (taken over by the Society in 1933) is the correct repository of information linking proprietaries with drugs that are the subject of monographs.

Anxiety over Educational Changes

That recently agreed changes in educational policy are still causing anxiety to members is reflected in resolutions in similar terms by East Metropolitan and Liverpool branches, which seek to ensure that the Society's powers over its curriculum and qualification should be jealously guarded. Glasgow, commendably uninfluenced by the argument that no preparations should

be made by pharmacists for undertaking work under the National Health Service until the terms of remuneration are known, aims to encompass the widened range of syllabus requirements by postal and part-time refresher courses sponsored by the Society for its members.

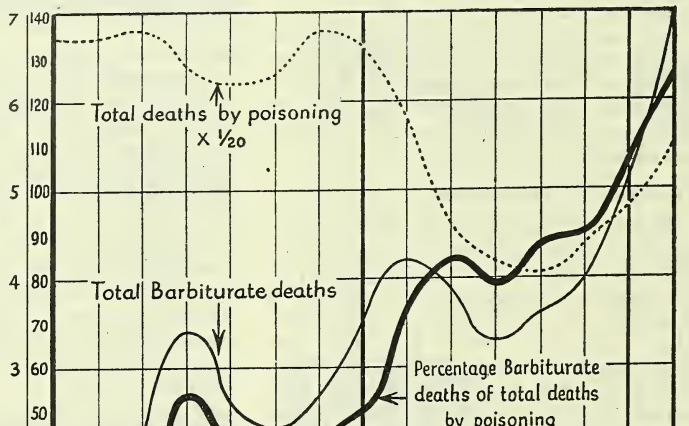
Financial Considerations

All the resolutions so far mentioned evince an enlightened awareness of current affairs in the craft, even if the subject-matter of some of them is controversial. The motions on financial matters reveal that the monetary position of the Society is not so universally appreciated for, while Bristol shows concern lest the new building may have caused a drain on the funds that may not be evident from the statements of accounts as published, and demands a detailed account of the financial history of the building since its inception, Birkenhead and West Glamorgan are apparently under the misconception that there is money to spare. The Welsh branch desires that "reasonable" expenses of branch representatives should be paid by the Society—a fair enough proposal in principle, but one that might in present circumstances seriously embarrass the treasurer, especially if the Birkenhead resolution to abandon premises registration fees were to be passed. There is a further objection to the latter resolution, namely, that the employees in pharmacy would regard it as an added injustice. There is already a feeling among many of them that they pay the same personal retention fee as the proprietors and receive nothing for it. Their employers can at least claim at present that, by paying the premises retention fees, they go far towards adjusting the load according to the shoulders that have to bear it.

On the resolution urging the end of purchase tax on medicines, there is little to add to our previous editorial comments beyond expressing confidence that, before the discussion on the motion takes place, the Budget proposals of the Chancellor will have rendered it unnecessary.

Deaths from Barbiturates

A MARKED increase in the number of inquests on deaths by barbiturate poisoning, as recorded in THE CHEMIST AND DRUGGIST—some involving pharmacists as witnesses—has prompted a brief investigation of the figures. The results, obtained from the Registrar-General's Statistical Reviews, are summarised in the graphs below. They show that in 1946 some 139 persons died from taking barbiturates, either accidentally



or with suicidal intent, against thirty-two in 1932—an increase of over 400 per cent. An even more serious fact revealed by the statistics is that the proportion of barbiturate deaths to the total number of deaths by poisoning (except poisoning by gas) has risen, more or less uniformly, from 1.2 per cent. in 1932 to 6.3 per cent. in 1946. Later statistics have not yet been compiled, but from the available evidence it seems likely that the proportion has continued to increase. Total deaths by poisoning in 1946 (2,213), on the other hand, were only 81 per cent. of the total for 1932.

It will be observed that the graph indicating the total number of barbiturate poisonings (the thin continuous line) shows two troughs. The second trough may possibly be explained by the fact that during the war years the statistics quoted applied to civilians only. How may the first trough be explained? Does it denote the effect of the Poisons Rules, which first came into full operation during 1936? If so, the subsequent gradual rise demands an explanation, and this may perhaps be found in the growing number of "repeat" prescriptions in patients' hands enabling them to secure barbiturates without further reference to their medical advisers. Indeed, the steeply climbing thick line on the graph (representing the percentage of barbiturate to total poisonings) points to an unsatisfactory state of affairs, and gives good ground for action, as recommended by a number of coroners, in order to bring about stricter control of the barbiturates and allied drugs. In part, the desired result may be secured by abandoning the "agreement" between the Home Office and the Pharmaceutical Society under which "repeat" prescriptions may be dispensed an unlimited number of times, and by specifying on the prescription the total amount of the drug prescribed (as we have pointed out the wording of the regulations demands). Even further control may become necessary in order to meet the difficulty, suggested by one medical officer (see p. 396) that, after taking a few barbiturate tablets, a patient may forget the number already consumed and go on to take an overdose. Unfortunately, there are no published statistics showing how the fatal overdoses of barbiturate drugs are obtained, and in at least one case recently (see *C. & D.*, January 17, p. 82) the drug had come from black market sources. However, the prescribing of as much as one or two months' supply of a barbiturate—as happens even in hospitals, not to mention doctors' dispensaries—is a practice to which objections are obvious. Though nothing will dissuade a determined suicide, the lack of an easy means may act as a deterrent.

Exports in February

The value of United Kingdom exports in February (£112.9 millions) was £6.6 millions lower than in the previous month, but higher than in any other month since 1920. With only twenty-four working days in February, the daily rate was greater than January, and had not been equalled since 1920. A welcome drop in the total imports in February, very much greater than the reduction in exports and re-exports, produced a fall in the adverse trade balance to £31.2 million, the lowest figure since February 1947. In February 1938 the deficit on trading account was £32.7 millions. The February total for the chemicals group was not exceptional. At £5,709,055 it compared unfavourably with the high total of £6,760,706 in the previous month, although the former figure includes impressive values for paints and colours (the rate of export of which was the highest since the war) and for copper sulphate of which 6,300 tons was exported in February. The value reached by drugs, medicines and medicinal preparations was also rather disappointing at £1,052,385, against the January total of £1,528,354. Exports of proprietary medicines contributed £283,075 to the February total, and this section's trade was only half that of the previous month. Aspirin shipments fell from 41,482 lb. in January to 28,097 lb., presumably because of lower output owing to shortage of phenol. Most satisfactory increases, however, were shown in the exports of insulin and penicillin—the former reached a total of £37,310 (January, £27,703) and the latter £161,140 (£129,625). Principal markets for British-manufactured medicines, in order of importance, were South Africa, India, Pakistan, Australia, Eire and British West Africa.

PHYSICO-CHEMICAL METHODS OF PHARMACEUTICAL ANALYSIS

By W. F. Elvidge, Ph.D., B.Sc., F.R.I.C.

4.—Infra-red spectroscopy, and fluorimetry

To make use of absorption in the infra-red region, considerable modifications have to be incorporated in the absorption apparatus used to accommodate the properties of the longer wave-length waves. A Nernst filament lamp is generally used as the source of infra-red rays and prisms of different materials are used for the wave length required, quartz being used up to 3.5 μ, for example, rock salt up to 16 μ, and sylvine up to 21 μ. A deterrent to work in this region was the difficulty of detecting and measuring the small amounts of radiations at these long wave-lengths, after they had been spread out by the dispersing system. The original thermo-couples and sensitive galvanometers made the tracing of the spectra a very slow and tedious process, but recent years have seen considerable advance on the instrumental side. The sensitivity of thermo-couples has been increased by the use of new alloys, and by mounting in vacuum. The output voltage of these is amplified, and by coupling with a recorder rapid automatic recording instruments have been developed. These have been further improved by the introduction of a double beam system which takes care of the blank absorption derived from the atmosphere, and instruments built on these principles are useful in the 3-7 μ range. Another innovation is the introduction of a bolometer which, although less sensitive, has a very high rate of response. The resistance of a bolometer alters with temperature, so that when a steady voltage is applied across it, irradiation of a periodic nature produces a small fluctuation in the output voltage, and this may be amplified by commercial electronic amplifiers. Instruments of this type are particularly robust.

Infra-red spectra are of particular value to analysts in cases where ultra violet spectra fail, for example where compounds of a similar constitution show practically the same spectra. Thus ultra violet work is of no value in the analysis of a mixture of isomers such as o-, m-, and p-cresols. The infra-red spectra of these cresols, however, show distinct differences in the 11-14 μ region, and by selecting certain key bands a satisfactory method for the determination of each of these three compounds in a mixture has been worked out. The spectral differences are found to be common for all such compounds, and infra-red spectroscopy can function as a general method for detecting or determining isomers of this nature which often occur in the preparation of aromatic compounds. Only optical enantiomorphs show identical infra-red spectra. The presence of a given group gives rise to a characteristic band which is independent of the structure of the remainder of the molecule, and methods for analysis are based on searching for these key bands, unaffected by the absorption given by the presence of molecular residue. The CO group in ketones gives a characteristic band at 5.8 μ; CH_2 and CH_3 groups also can be distinguished, and the relative position of substituents in aromatic nuclei determined by the use of infra-red spectra.

Practical Applications

An important application of infra-red spectroscopy occurs in the manufacture of benzene hexachloride for insecticide purposes. Benzene hexachloride can exist in a number of isomeric forms, and practically the whole of the insecticidal activity is exhibited by the γ isomer. Chemical quantitative separation of the α, β, γ, and δ forms is practically impossible by ordinary analysis, but examination of the infra-red spectra between 6 and 15 μ shows differences by means of which the proportion of the isomers present can be determined, and this has enabled the commercial product to be standardised in terms of the active γ form. Another application is in the commercial production of plastics and synthetic rubber, both of which depend upon polymerisation. The course of the reaction can be studied by including in the flow system a chamber fitted with windows transmitting the desired wave length, which is chosen as characteristic for the isomer being estimated. It is likely that infra-red spectroscopy will be extended particularly in pharmaceutical and biological fields, and preliminary studies of hormones and steroids have already been made. It has been used in America to determine the proportion of the different penicillins in commercial samples. The infra-red region will prove as valuable as the ultra violet, both to the chemist con-

APPARATUS FOR PHYSICO-CHEMICAL DETERMINATIONS

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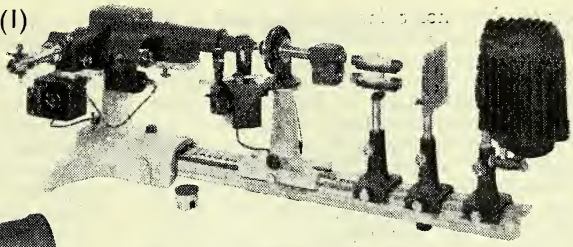

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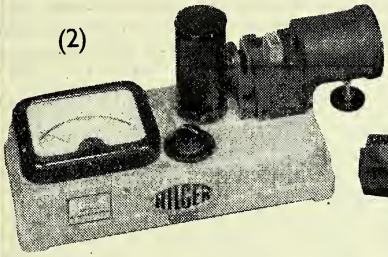

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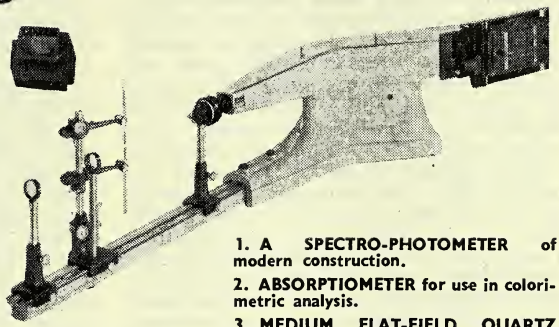

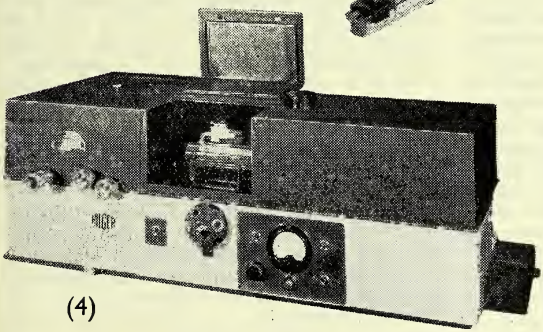

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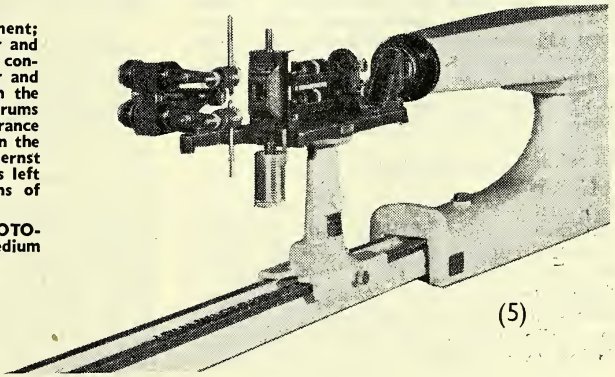
1. A SPECTRO-PHOTOMETER of modern construction.

2. ABSORPTIOMETER for use in colorimetric analysis.

3. MEDIUM FLAT-FIELD QUARTZ SPECTROGRAPH set up for emission spectrum analysis. The bar supports the following objects in order from the extreme left: Target on stand for centering the arc; arc stand with projection lens producing an image of the spark or arc cap on the target; condensing lens on mount, producing an even illumination of the whole height of the slit for quantitative work.

4. NON-RECORDING INDUSTRIAL INFRA-RED SPECTROPHOTOMETER. The material to be examined is placed in one of two tubes situated in the centre; to the right is the illuminating system including the Nernst filament; to the left are the monochromator and thermopile arrangements which are connected to a galvanometer-amplifier and a scale reader. The drums seen in the left-hand section are adjusting drums for wave length, and for the entrance and exit slits. The control panel in the front of the instrument is for the Nernst filament. The circular turret to its left rotates and indicates the positions of the absorption.

5. SPEKKER ULTRA-VIOLET PHOTOMETER mounted in front of a medium quartz spectrograph.



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Photographs by courtesy, Hilger & Watts, Ltd., Hilger Division, 98 St. Pancras Way, London, N.W.1.

cerned with molecular structure and to the analyst in controlling purity.

Fluorescence is closely allied with absorption phenomena, in fact, fluorescence can only take place in those cases where light has been absorbed. In general, the wave length of the light emitted as fluorescence is longer than that absorbed, although there are a few exceptions. As with absorption spectra, where the atoms are simple and give rise to line spectra the fluorescence spectra will similarly consist of simple lines. Fluorimetry is more used with organic compounds, and since these compounds possess broad absorption bands, their fluorescence spectra similarly consist of bands with peak intensities at certain wave lengths. The spectral curves are usually broader and the peaks by no means so pronounced. The intensity of the fluorescence is considerably weaker. The exact nature and intensity of the fluorescence depends upon the nature of the exciting light. In designing apparatus for quantitative fluorimetry, all these features have to be taken into consideration. Illumination must be with light of known wave length, and is usually provided as filtered ultra violet light such as that from a mercury vapour lamp filtered through Woods glass (giving practically monochromatic light of 3,650 Å). Illumination is carried out at right angles to the plane of the cell, so that the resulting luminescence can fall on to the slit of a spectrograph. Long exposures have to be given because of the relatively feeble luminescence, and, as many compounds only fluoresce strongly at low temperatures, to obtain the best results devices for working with cells cooled in liquid air often have to be incorporated. Relatively little analytical work has been done on fluorescence spectra obtained in this manner. Work published about two years ago, however, suggested that the fluorescence spectra of liver extracts were related to their activity because of the presence of pterin-like compounds as the possible active principle, but this still awaits confirmation.

Fluorimetric Apparatus

Generally, analytical work involving fluorimetry is carried out in much simpler apparatus, similar to that used in absorptiometric apparatus for colorimetric analysis. The solution to be examined is illuminated from below by means of filtered ultra violet light and the resulting fluorescence allowed to fall on a photo cell. Owing to the feeble intensity of the current a more delicate galvanometer must be used than with colorimetry. Some instruments are of the single photo cell type, the scale reading of the galvanometer being proportional to the intensity of fluorescence. A better principle is incorporated in null-point instruments in which the fluorescence under examination is balanced against that from a standard solution of a fluorescent substance such as quinine or fluorescein. Such methods are in regular use for the analysis of biological, food and pharmaceutical materials, and include estimations such as riboflavine, mepacrine and aneurine. The aneurine estimation is dependent upon the formation of the fluorescent thiochrome by oxidation.

The main difficulties with fluorimetry of this nature are not in the measurement of the fluorescence, but in ensuring that no extraneous fluorescence is included. Most organic substances are capable of showing some fluorescence, often of low intensity and short duration, and one catalogue giving the fluorescence data of organic compounds lists nearly 30,000 items. Steps must therefore be taken to remove this extraneous fluorescence, possibly by adsorption, or to correct for it by control determinations. Another trouble encountered is known as "quenching." This is a rather loose term used for describing the loss or absorption of the fluorescence, and it is often used to include all factors which bring about loss of linearity between concentration and fluorescence intensity. Some of the factors are instrumental and the term "quenching" should be restricted to the following: (1) Intra-molecular effects; (2) Inter-molecular effects, which may be due to: (a) molecular collision with solvent molecules, or (b) compound formation in solution with either solvent or solute molecules.

Activation of Carbon. — A method of activating carbon with thiocyanate, developed in Germany during the 1939-45 war, is described in F.I.A.T. Final Report No. 1181, published recently. The uses for the carbon during war included the purification of water, industrial vapour and gas adsorption, and protection against gas attack. Peat was commonly used as a source of the carbon. Appendices list the plants manufacturing activated carbon in Germany, the type of activation used, and the trade names and descriptions under which the products are issued. Copies of the report may be obtained from H.M. Stationery Office, Kingsway, London, W.C.2, price 2s.

PRESIDENT ON HER NATIVE HEATH

Mrs. Irvine Discusses " Pharmacy as a Public Service "

MRS. J. K. IRVINE, M.B.E. (president of the Pharmaceutical Society), was welcomed by the Branch chairman (Mr. R. McCrone) as a " Scotswoman returning to her native country " when she addressed the Glasgow and South-western Scottish branch of the Society in Glasgow on March 17.

Historical Background of N.H.S.

MRS. IRVINE said that under the present National Insurance Act pharmacy had supplied a public service applying only to the insured portion of the population. The new service would apply to the whole community. The National Insurance Act of 1911, which had recognised pharmacists for the first time as the proper persons to dispense medicines, would disappear when the new service came into operation on July 5. The new Act was not simply an extension of the present one; it was the direct outcome of the Beveridge Report which had included, amongst other social security principles, a comprehensive health service for every citizen. The Beveridge Report, published at a time when the country was struggling for its very existence, had seemed almost fantastic, but it had attracted world-wide interest.

When the Beveridge Report was issued, continued Mrs. Irvine, the Pharmaceutical Society had taken immediate steps to implement one of its chartered objects. Jointly with the National Pharmaceutical Union, it had sent to the Beveridge Committee a memorandum setting out concisely the part pharmacists should occupy in a comprehensive public health service, and giving powerful reasons why all dispensing should be done by pharmacists. Since then the leaders of pharmacy had carried on intensive propaganda designed to give pharmacy its proper place. As a result, pharmacy was recognised, for the first time in a Government measure, as an independent profession with the right to its own organisation throughout the service.

Act Taken on Trust

The National Health Insurance Act had been brought into being despite bitter opposition from the medical profession. History had repeated itself and the doctors and dentists today were firm in their opposition to the scheme. Pharmacists, on the other hand, had welcomed the new Act and, subject to satisfactory terms of service and remuneration, were prepared to take their part. Pharmacists so far were taking the Act on trust because they had little idea of the terms of service or remuneration. Mrs. Irvine hoped the trust would be justified, for there would be little time for extended or controversial negotiations.

The pharmacy Working Party, set up by the Ministry of Health to survey the practise of dispensing throughout the country, consisted of four pharmacists, two from Scotland and two from England, with an independent chairman. Divided into two groups, an Englishman and a Scot in each, they had visited retail pharmacies from Wick to Devon, investigating the nature of the business, the type of dispensing carried on and other particulars. It was expected that their report, containing valuable information on dispensing variations in different types of pharmacies, would provide material on which to negotiate terms.

The Joint Committee

The Joint Committee on a National Pharmaceutical Service, now deprived of any executive power, had completed its investigation and had issued its report. The object of the inquiry had been to establish the cost structure of the National Health Insurance dispensing service provided by privately owned pharmacies throughout England and Wales. At the same time a parallel inquiry had been made into the costs of dispensing private prescriptions. The report had not been made public.

In a debate on the National Health Service in the House of Commons on February 9 the Minister of Health had moved:—

> That this House take note that the appointed day for the National Health Service has been fixed for July 5; welcomes the coming into force on that date of this measure which offers to all sections of the community comprehensive medical care and treatment and lays for the first time a sound foundation for the health of the people; and is satisfied that the conditions under which all the professions concerned are invited to participate are generous and fully in accord with their traditional freedom and dignity.

The pharmaceutical profession, which had now been invited to take part in negotiations on conditions and terms of service, was entitled to assume that the Government had meant what it said, and that the conditions would be generous and compatible with the freedom and dignity of the profession.

The profession was recognised in the Act by positions for two pharmacists on the

Central Health Services Council. Pharmacy would also have its own Standing Pharmaceutical Committee with direct approach to the Minister, and would be able to advise the Minister on matters relating to the Service. A new development for pharmacy was the setting up by the Minister of a Functional or "Whitley" Council for pharmacy, one of eight such Councils dealing with particular groups of employees in the National Health Service. The Ministry had stated that machinery was required to provide co-ordination and to enable those who were working in the service at any level to assist in improving its efficiency; the Council was to consider and remedy grievances and to give speedy decisions. It was a matter of regret, said Mrs. Irvine, that the new Functional Council for pharmacy was apparently going to confine itself entirely to the discussion and recommendation of terms and conditions of service for contractors. The Pharmaceutical Society was not at present officially represented on it. The profession of pharmacy revolved round the qualification of the pharmacist, and questions affecting his progress and general welfare (except those dealing with employers and employees as such) should be dealt with by the Pharmaceutical Society.

Pharmaceutical Committees

Pharmaceutical Committees would have added duties and responsibilities and a wider constitution. At present they represented only contractors. Under the New Act they would represent all persons providing pharmaceutical services in the area of an Executive Council, including pharmacists in hospitals and health centres. The Executive Council, on which there must be two pharmacists, replaced the present Insurance Committee, and its duty would be to arrange for the supply of drugs, medicines and appliances, whether from a health centre or otherwise. The arrangements must be made with registered pharmacists or authorised sellers of poisons, and all medicines must be dispensed either by or under the direct supervision of a registered pharmacist.

The number of prescriptions to be dispensed by chemists in England under the New Act had been estimated at about 170 millions a year. The whole population would become "panel patients"; doctors' dispensing would gradually cease; and persons who seldom consulted a doctor or needed the services of a pharmacist would then obtain medical advice and medicine free. Were pharmacists equipped to deal with such an increased number of patients and such an enormous influx of prescriptions? asked Mrs. Irvine. The patient had a free choice and could take his prescriptions to the pharmacist or to the health centre, if there was one. The future of pharmacy in retail shops depended on the way in which the increased work was undertaken. Were pharmacies today equipped and staffed to deal with the conditions of the new Act? It was to be hoped they would be before the appointed day because there had never been a similar opportunity to place pharmaceutical practice on a sound professional basis. With the magnificent record of thirty-five years' dispensing under the present National Health Insurance scheme, the pharmacist of today who was able and willing to take on the bigger job would undoubtedly make a success of it.

Hospitals and Health Centres

Pharmacists in hospitals would be under the control of either the Board of Governors (in a teaching hospital) or the Regional Hospital Board. Large hospitals which at present had no pharmacist and where the dispensing was done by a dispenser would be required to employ a pharmacist. Health centres were likely to develop slowly and then only in populated areas. The Minister had stated recently that he could not say when he would be able to build new health centres and that he did not wish to use existing buildings. In the health centre, arrangements for the supply of drugs and medicines were to be made by the local Executive Council, but the pharmacist would be under the control and on the staff of the local health authority.

Apprehension had been expressed by those who feared that the health centre would gradually eliminate the private pharmacy. At present there were over 15,000 pharmacies throughout the country dispensing National Health Insurance prescriptions. Could the establishment of an equal number of health centres be visualised even in the distant future? Convenience of the community was paramount.

Ever since a National Health Service had been visualised, the Pharmaceutical Society had done its utmost to ensure that pharmacy was recognised as a sister profession with medicine. Modern medicine required highly-trained pharmacists, and the revised examination regulations, with a post-intermediate course of two years, would, it was hoped, assist members of the Society to maintain their professional status and be-

come highly-skilled professional people taking their proper place in a fully co-ordinated health service.

"There is no need to emphasise the changing world," concluded Mrs. Irvine. "The world as we knew it has gone for ever; in many ways it was a pleasant easy-going world, and we regret its passing. We have now to face facts and changed conditions and realise that to keep our place in the new world and to take our proper position in the health service of the nation involves constructive thinking and immediate planning for the future."

Third Scottish President

Opening the discussion, MR. W. SPENCE CULBERT said that Mrs. Irvine was the third Scottish pharmacist to become president of the Society. In Scotland they were more fortunate than their English colleagues because the North British Federation and the Standing Committee had got together for negotiating purposes, realising that unity was strength. In England the real negotiating body was the National Pharmaceutical Union. Pharmacists would have more dispensing to do under the new Service, but the pharmacist who kept abreast of the modern conditions would be able to cope with the situation.

MR. W. A. BEATTIE (Superintendent of the Checking Bureau) said that Glasgow had been a pioneer in planning education for the pharmacist. London and the rest of the country had followed. The Education Committee of the Society deserved to be commended for standing up for its ideals in face of opposition. He wanted to know if the transfer of the Society's College to London University meant that the Society would lose the pharmacological laboratories; these had been instituted by far-sighted men, and no other branch of the Society's activities had brought it such prestige. The laboratories were often referred to in other scientific publications. Replying, MRS. IRVINE said that the pharmacological laboratories were part of the College and would go with it.

MR. R. W. R. WILSON asked who had appointed the members of the Committee that was making the nation-wide survey of pharmacy, and MRS. IRVINE said she understood that the two English representatives had been appointed by the N.P.U. and that the Scottish Standing Committee had nominated the Scottish representatives.

PROFESSOR J. P. TODD, Glasgow, said that it was through the schools that apprentices in Scotland were entering the retail trade. Most of them took classes before becoming apprentices. Glasgow had established a degree in pharmacy in 1907 and had been the first to separate the Intermediate and the Chemist and Druggist courses. The Council of the Society had done an excellent job, but the proposals had come a few years too late to fit in with the new order. Professor Todd concluded by saying, amid laughter, that he presumed that part of his annual 52s. 6d. subscription went to London University, a rival organisation to the school of which he was the head. The Society paid London University £10,000 annually. His own classes received money from the University Grants Committee and so did London, and he would welcome a yearly grant also from the Society—say £2,000—which he could very well use for scholarships.

MR. C. MCKECHNIE asked if the number of prescriptions coming into any one pharmacy would be controlled under N.H.S. MRS. IRVINE suggested that the questioner's fear was lest a situation might develop in which there was only one qualified pharmacist with a number of unqualified assistants. The Society could deal with such a position.

MR. G. WALKER asked if a plebiscite would be taken in Scotland before terms of service were accepted; MR. CULBERT replied that Scottish pharmacists would have the opportunity to express their views.

In answer to MR. ANDREW OFFICER, DR. JOSEPH TAIT (Resident Secretary in Scotland) said that pharmacists desirous of extending or improving their premises in view of the Act, should send him details, and he would endeavour to arrange the necessary permits.

MRS. IRVINE agreed with THE CHAIRMAN that it was wrong to place the burden of purchase tax on the people's medicine.

MR. CRUICKSHANK, Clydebank, urged that more emphasis should be laid on remuneration, but DR. TAIT assured the meeting that this matter would be adequately dealt with. A vote of thanks to Mrs. Irvine was proposed by MR. W. MCADAM.

Doctors' Spelling.—"I don't know what the standard of literacy among office-boys and costermongers is, but I am sure that given a bottle of clearly labelled *Pilocarpine* they would abstain from writing pylocaphone three times running . . . or believe that substances are detoxificated."—Peripatetic correspondent in the "Lancet."

RECENT RESEARCH

Virus from Bird Mites.—Hammon and other workers ("Science," January 23, p. 92) state that they have isolated from mites found in the nest of a yellow-headed blackbird a virus, or a mixture of viruses, which, after serial passage in the brains of mice, is identified as a strain of the virus of St. Louis encephalitis. Passing the virus through chick embryos enables a factor possessing the characteristics of Western equine encephalomyelitis virus to be obtained.

Virus Detected in Throat. — Gordon and other workers ("Journal of the American Medical Association," 1947.II.887) have recovered poliomyelitis virus from swabs from the throat and mouth of three out of five children who had been exposed to poliomyelitis at accurately known dates. Subject to more extensive tests to determine the significance of the pharyngeal virus, the authors suggest that the source of virus in contact infections is not an infective stool.

Action of Sulphonamides.—Following work done at the School of Pathology, Trinity College, Dublin, O'Meara, McNally and Nelson ("Lancet," 1947. II.741) conclude that sulphonamides act within the bacterial cell by depriving it of metabolites during active metabolism (e.g., growth). The sulphonamide replaces *p*-aminobenzoic acid and combines with glucoreductone, $CH_2OH.CO.CHO$, a reactive aldehyde, and possibly other metabolites. Suddenly arresting the metabolism of the cell at a time when it is adjusted for reproduction is likely, they consider, to be fatal.

Resistance to Antibiotics. — Miller ("Journal of the American Medical Association," 1947.II.749) finds that bacterial resistance to penicillin develops slowly and has not become a serious problem, most infection coming under control before resistance has appreciably developed. Moreover, most patients receive doses sufficiently in excess of the minimum to allow for possible increases in resistance. Streptomycin resistance may develop rapidly, and is probably caused by the formation, by mutation, of streptomycin-resistant variants of the original bacteria. The author warns against mistaking a penicillin-resistant organism for acquired penicillin resistance in the original organism.

Staphylococcal Shapes.—Bellamy and Klimek, following studies at the Sterling-Winthrop Research Institute, Renneslaer, New York, report considerable changes in the characters of staphylococci in which penicillin resistance has been induced experimentally. Staphylococci with a penicillin resistance 60,000 times the original become gram-negative and take on various forms from spherical to rod-shaped. Continued transfer in nutrient broth, in the absence of penicillin, no longer caused loss of penicillin-resistance or a return to the gram-positive coccus form, but growth in a medium deficient in protein and vitamins caused a reversal of form and a "significant loss of penicillin-resistance."

Chemical Structure and Drug Action.—Discussing the nature and spatial relationship of the prosthetic chemical groups required for maximal muscarinic action Pfeiffer states ("Science," January 23, p. 94) that while workers may predict pharmacological action from prosthetic groupings, the usefulness of a new drug will depend on the pharmacological action of the associated molecular structure, which must always be determined by animal experimentation. He calls for more accurate measurement of the molecules of muscarinic drugs so that pharmacologists can define more accurately the prosthetic groups, interprosthetic distances, and the spatial relationship of the receptors on the surface of reacting cells. As blocking molecules have a characteristic configuration this type of analysis could be extended to other series of drugs, such as the barbiturates and analgesics.

Trypanocidal Mechanisms. — Williamson and Lourie ("Nature," January 17, p. 103) have investigated the effect of the disodium salt of 4-melaminyl phenylarsonic acid (Melarsen) and the corresponding arsenoxide (Melarsen oxide) against *Trypanosoma rhodesiense,* and a tryparsamide resistant offshoot, in mice, in order to estimate the possible use of the compounds against tryparsamide-resistant sleeping sickness. They conclude that while the ultimate lethal mechanism of the arsenoxide is the same as that of other arsenoxides (by inactivation of —SH groups), the means of fixation on, or entry into, the trypanosome cell, is different. The difference may underlie the activity of the compound against trypanosomes resistant to other types of arsenical agents. The conclusion is analogous to that reached by the authors about the action of different antimalarial compounds.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Scottish and English Pharmacy

SIR,—I am not any more enamoured by Mr. Tristram's complacency over N.H.S. than is Mr. Whitelaw (see *C. & D.*, February 21, p. 255). We will probably be notified about July 4 what Mr. Bevan's terms are for pharmacy. Like a good shepherd, the Minister knows he has only got to make his dog bark and the sheep will file through the gate. A number of speakers have stressed the fact that "there is little fear of the retail pharmacist being ousted by the State dispensaries. The former will always retain the confidence of the public and get his share." That is no way to do business. Mr. Bevan should be told in no uncertain manner that he either runs State dispensaries everywhere—in Inversnecky as well as London, in Holt as well as Glasgow, or leaves the job to contractors. Private chemists, who, unlike the multiples, serve the public in the remotest parts of the country as well as in the cities, have no reason to be ashamed of services they render. They should not have to compete with State dispensaries, whose buildings, stock and staff will be paid for from public funds. The health-centre pharmacist will get paid his salary irrespective of whether there is a day's work for him or not. The private chemist will get paid (?) for what he dispenses, and how he will get the wherewithal to live is nobody's worry but his own. I further agree with Mr. Whitelaw's remarks about Scottish chemists under N.H.S.

Yours faithfully,

St. Andrews, Scotland. A. W. KEITH.

P.S.—I have a couple of machine guns stationed at my door and my staff have memorised the faces of Mr. Bevan and the powers-that-be in Bloomsbury Square, so don't have any qualms on my behalf!

Dispensing Technicians

SIR,—There are, in trusted positions in pharmacy, several persons who are unable to comply with the out-of-date regulations governing the admittance to the register of the Pharmaceutical Society. I refer particularly to the statement in the official regulations that "no practical or approved course of instruction or part thereof undergone before the examination requirements for registration as 'Apprentice or Student' have been satisfied can be recognised under the regulations." This prevents anyone who has entered pharmacy through force of circumstance, although having good diplomas in chemistry and allied subjects, from attempting qualification May I suggest that a system similar to that in operation with the Royal Institute of Chemistry should be adopted by the Pharmaceutical Society. An associate of the Institute has an accepted standing which is not diminished in any way by the admittance of persons who are qualified by experience. In contemplating concessions, the ex-Service man deserves consideration, but the "stay-at-home" should not be overlooked. Many carried on their conscientious duties in perilous times besides acting as wardens or special police, often at the risk of life. It would be far preferable and more patriotic to select fifty of our own people than to admit a similar number of foreign nationals, as has just taken place.

Yours faithfully,

PATRIOT.

No Dilution

SIR,—I would like to make it clear that my recent letter under the heading "Dispensing Technicians" (*C.& D.*, March 13, p. 350) was not intended to express approval of any admissions to the register such as "Mummatt's Nobby" suggests. What I want is the continuation of M.P.S. and Ph.C. as at present, with any necesary alteration of the curriculum to meet advancing requirements. The standard laid down by the Pharmaceutical Society must be the sole standard. If any other body or association is allowed to put forward "admissions" then the Society is absolutely and completely "sunk."

Yours faithfully,

Anstruther. R. S. WHITELAW.

Appreciations

I think this is my fifty-third remittance. Does this make me your oldest subscriber? *J. T. M.*, Bishop's Stortford.

My first subscription to the *C. & D.* was thirty-five years ago. I still send my remittance with the same eager enthusiasm.—*E. D. G.*, Leeds, 12.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex St., W.C.2, March 24

A ROUTINE trade in PHARMACEUTICAL and FINE CHEMICALS has been transacted in the last few days before the Easter holiday. It is evident that a number of price reductions may be expected as a result of the F.B.I. proposals, although the scale of the changes cannot be ascertained at present. It is probable that export prices will be the first to be cut; evidence of this intention is displayed in lower rates for CALCIFEROL announced a few days ago. The only change in home trade prices is in CHLORAL HYDRATE; lower rates for this product operate from March 16. Further serious shortages of glass containers are reported and renewed efforts are called for in returning empties quickly. The controlled prices of Industrial Alcohol are to be increased on April 1 by 3⅞d. per proof gall., and METHYLATED SPIRIT by 6¼d. per bulk gall. Other increases range from ½d. per gall. for ACETIC ANHYDRIDE to £48 per ton for BUTYL ALCOHOL. The controlled price of ACETONE is, however, reduced by £10 per ton.

Crude Drugs

Rather more inquiry has been received for CRUDE DRUGS in the last few days but business continues slow. Shipment quotations for Cape ALOES are lower and holders of spot supplies are more easily disposed to accept bids. Although PERU BALSAM for shipment remains firm there are parcels on the spot which merchants are prepared to sell at rather lower prices than have been asked recently. This easier tone of the markets, although not yet pronounced, is growing. GUM ACACIA, on the spot, is in fair demand and continues steady, but the strike of transport workers in the Sudan has caused shipment quotations to strengthen. The increase in the imports of LIQUORICE JUICE from the U.S. is thought to be responsible for the decision of the Board of Trade to revoke the Open General Licence previously granted for the import of this product consigned from any country. The announcement is made in Notice to Importers No. 280, and states that from March 17 individual import licences will be required. MENTHOL continues an easy market with most holders prepared to take 40s. per lb., duty paid, for spot supplies, and material in bond is offered at 38s. 6d. RHUBARB is steady; parcels of good-quality Chinese rough round are offering at 5s. per lb. There has been a fair home trade inquiry for Shensi and business has been done at previously quoted prices. Quotations for SEEDS are little changed on the week, but there has been a greater number of inquiries for export.

U.S. Drug and Chemical Report

New York, March 19

DURING the past week there have been few changes in the U.S. markets. It is thought that the supply position of GLYCERIN is likely to deteriorate shortly following a decline in soap production. The recent increase in the selling price of THIOUREA has not yet been reflected in higher rates for SULPHONAMIDES, probably because makers have a reasonably good supply on hand. Resellers are offering CITRIC ACID CRYSTALS at 25 cents per lb., ex warehouse, which is slightly below manufacturers' current prices.

Activity in the CRUDE DRUGS markets has continued on a routine level with buyers confining their purchases to immediate requirements. Much uncertainty prevails about the future costs and replacement possibilities of Indian products. COLCHICUM SEED is reported to be in a virtually nominal position, while JALAP ROOT is very difficult to locate in quantity. Substantial imports of Spanish MERCURY over recent weeks are reported; domestic prices are unchanged at the recently reduced levels of $76 to $79 per flask.

There have been no changes to report in ESSENTIAL OILS. A brisk demand has been received for SYNTHETICS and ISOLATES, and although the supplies of most products are adequate, there has been a serious shortage of those products derived from coal-tar raw materials. Other synthetics which are in short supply are AMYL CINNAMIC ALDEHYDE, AMYL SALICYLATE, TERPINEOL and VANILLIN. There has been a good output of HELIOTROPINE and the IONONES.

Pharmaceutical Chemicals

ASCORBIC ACID.—Current quotations are at from £23 10s. per kilo, upwards.

BROMINE COMPOUNDS.—Current prices per lb. are as follows: BROMOFORM, B.P.C., 12s. 9d.; CADMIUM, crystals, 13s.; CALCIUM, 4s. 10d.; ETHYL, 9s. 6d.; LITHIUM, 13s.; HYDROBROMIC ACID, B.P.C., 6 Winchester quarts, 2s. 3d., and smaller quantities, 3s. 1d.; DILUTE ACID, B.P., 3 Winchester quarts, 1s. 4d.; CONCENTRATED, 40 per cent. 6 Winchester quarts, 2s. 5½d., and smalls, 3s. 3½d.; CONCENTRATED, 50 per cent., 6 Winchester quarts, 3s. 1½d., smalls, 3s. 11½d.

COCAINE.—Rates per oz. are as follows: ALKALOID, CITRATE and SALICYLATE, bottles, ⅛-oz., 63s.; ¼-oz., 59s. 6d.; ½-oz., 56s. 6d.; 1-oz., 55s. 6d.; 4-oz., 55s.; 8-oz., 54s. 3d.; 16-oz., 53s. 9d.; tins, 25-oz., 53s. HYDROCHLORIDE, NITRATE and SULPHATE, bottles, ⅛-oz., 56s.; ¼-oz.,

52s. 6d.; ½-oz., 50s.; 1-oz., 48s. 6d.; 4-oz., 48s.; 8-oz., 47s. 3d.; 16-oz., 46s. 9d.; tins, 25-oz., 46s. The quotations include cost of containers.

CYCLOBARBITONE.—Current price for 100-kilo lots is 215s. per kilo; 200-kilo lots, 206s. The CALCIUM derivative is quoted at 227s. per kilo.

DIGITOXIN.—Current quotations are in the region of 115s. per gm.

EPHEDRINE.—Quotations for the ALKALOID are at from 10s. 6d. to 13s. per oz., as to quantity and seller. HYDROCHLORIDE is quoted at from 7s. 9d. to 9s. and SULPHATE at 8s. to 9s. per oz.

ERGOMETRINE.—Makers' prices per gm. are as follows: BASE, in quantities of 1 gm., £20; 5 gm., £19 5s.; 20 gm., £19. ACID MALEATE, 1 gm., £14 15s.; 5 gm., £14 5s.; 20 gm., £14.

ESERINE SALTS. — Current price for SALICYLATE is 150s. and for SULPHATE 170s. per oz.; ALKALOID is 190s. per oz.

ETHYLMORPHINE.—Current rates per oz., in the home market, are: ALKALOID, ½ oz., 57s. 6d.; 1 oz., 55s.; 2 oz., 53s. 6d.; 3 oz., 52s. 9d.; 4 oz., 52s. 6d.; HYDROCHLORIDE, ½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

HEXYL RESORCINOL.—Prices are from 12s. per oz.

HYDROQUINONE.—Bulk rates are as follows: 10-cwt., 9s. 6d.; 5-cwt., 9s. 9d.; 1-cwt., 10s.; 28-lb., 11s.; 14-lb., 11s. 3d.; 7-lb., 11s. 6d. per lb. Carriage paid in the United Kingdom.

HYPOPHOSPHITES.—Makers' rates per lb. for 7-lb. lots are: AMMONIUM, 9s. 3d.; BARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, 9s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 8s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d. HYPOPHOSPHOROUS ACID, in quantities of 6 Winchester quarts, is 6s. 2d. per lb.

ICTHAMMOL, B.P.—Supplies in drums are quoted from 3s. 6d. to 3s. 8d. and upwards; in 28-lb. tins, 3s. 9d. to 3s. 10d.; in 1-lb. tins, 4s. 6d. to 5s. per lb., according to seller.

IODIDES.—Prices (per lb.) of minor iodides are as follows: AMMONIUM, B.P.C., 7-lb., 15s. 9d., smalls, 16s. 3d.; ARSENIC (triodide), B.P., 28s. 6d.; CADMIUM, B.P.C., 22s.; CALCIUM, B.P.C., 19s.; ETHYL, 28s.; IRON, B.P.C., 14s.; LEAD, B.P.C., powder 18s.; LITHIUM, B.P.C., 20s. 3d.; STRONTIUM, B.P.C., 18s. 6d.; ZINC, B.P.C., 19s. 3d.; MERCURIC, B.P., 7-lb., 14s. 3d., smalls, 14s. 9d.; MERCUROUS, B.P.C., green or yellow, 7-lb., 18s. 6d.; smalls, 19s.

IODOPHTHALEIN, B.P.—Current price is 60s. per lb.

IODOXYL.—Current quotations are at 156s. 6d. per lb. for the home trade.

ISOPROPYL ALCOHOL. — Makers quote 15s. 3d. per gall. for small lots.

LACTATES.—Current quotations are as follows: CALCIUM, 2s. 2½d. to 2s. 10½d.; CALCIUM SODIUM, 3s. 3d. to 3s. 11d.; ACID, 3s. 1½d. to 3s. 10d. per lb.

MAGNESIUM CARBONATE (B.P. LEVIS).—Current rates per lb. in the home trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 6d. (1-lb.); 1s. 5d. (2-lb.); 1s. 4½d. (4-lb.); 1s. 3½d. (7-lb.); 1s. 3d. (14-lb.); 1s. 2d. (28-lb.) per lb. Bulk quantities range from 94s. to 99s. per cwt. as to quantity, carriage paid.

MAGNESIUM CARBONATE (B.P. POND.).—Current rates per lb. in the home trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 9d. (1-lb.); 1s. 8d. (2-lb.); 1s. 7½d. (4-lb.); 1s. 6½d. (7-lb.); 1s. 6d. (14-lb.); 1s. 5d. (28-lb.) per lb. Bulk quantities range from 121s. to 131s. per cwt. as to quantity, in 28-lb. packages, carriage paid. Supplies are rather short.

MAGNESIUM HYDROXIDE, B.P.C.—Makers' price for 1-cwt. lots is 2s. 11d. per lb. with up to 3s. 7d. for smaller quantities.

MAGNESIUM OXIDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets, 28 lb. to 1 cwt., 3s. 5d. (1-lb.); 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.); 3s. 1d. (28-lb.) per lb. Bulk quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb. packages, as to quantity, carriage paid.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

METHYLTHIONINE CHLORIDE.—Quotations are from 8s. 6d. to 10s. per lb., according to quantity.

PARALDEHYDE.—Rates for B.P. material are as follows: 5 carboys, 1s. 5d. per lb.; 1 carboy, 1s. 6d.; 24 winchesters, 1s. 7½d.; 17, 1s. 8½d.; 6, 1s. 10d.; 3, 1s. 11d. per lb.

PEPTONE. — Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHENOL.—Maximum price for crystals in the home market is 11d. per lb., in 1-ton lots in drums (returnable), delivered.

PHENOLPHTHALEIN. — Manufacturers' prices per lb. are as follows: 1-cwt. lots, 6s. 1d.; 28-lb., 6s. 3d.; 14-lb., 6s. 6d.

PHOSPHATES.—Prices per lb. are as follows: AMMONIUM, from 2s. 6d. to 2s. 10d.; POTASSIUM, granular, 4s. 2d., powder, 4s. 5d.; SODIUM, 7½d. to 9d. (exsiccated, 2s. 2d. to 2s. 6d.); SODIUM ACID, 1s. 9d. to 2s. PHOSPHORIC ACID, B.P., is from 1s. 2½d. per lb. in carboys, and from 1s. 5½d. to 1s. 7½d. in winchesters.

Crude Drugs

ACONITE.—Indian root on the spot is offering at 300s. per cwt.

AGAR.—Kobé No. 1 type strip is quoted at 18s. 6d. per lb. on the spot.

ALOES.—Steady. Cape is offered at 153s., spot; shipment offers are at 138s. to 140s., c.i.f. Curaçao in boxes is offered at 210s. to 230s., spot; forward, 200s. per cwt., c.i.f. Socotrine on the spot is quoted at 156s. to 190s. per cwt.

ANISE (STAR).—Spot quoted from 120s. to 130s. per cwt.; shipment, 110s., c.i.f.

ANNATTO SEED.—Steady. A parcel of Jamaica is quoted at 11d. per lb., c.i.f.

ARECA NUTS.—Ceylon on the spot is offered at 67s. 6d. per cwt.

ARNICA FLOWERS.—Quotations are from 2s. 3d. to 2s. 6d. per lb., spot.

ASAFETIDA.—Persian block is offering at £22 10s. per cwt., spot, with lower quality material (Indian) down to £15.

BALSAMS.—*Canada* is steady at 18s. 6d. per lb., spot. Pará *Copaiba*, spot, 5s. 3d. to 6s. per lb. for soluble. *Peru*, San Salvador, is offered at 5s. 6d. to 6s. per lb., duty paid. *Tolu*, 18s. 6d. per lb., spot.

CANTHARIDES.—Chinese, spot, offered at 10s., duty paid; 6s. 3d. per lb., c.i.f.

CAPSICUMS.—East African on the spot, 85s. to 140s. per cwt., as to quality.

CARDAMOMS.—Quiet. Mangalore Half-bleached A's, 8s. 6d. per lb., spot; B's, 8s., seeds, 6s. 9d. Aleppy seeds No. 1 are quoted at 8s. 6d. per lb. Aleppy greens, 6s. 3d.; extra bold, 7s.

CASCARA SAGRADA.—Quiet. 1947 peel is quoted at 265s. to 275s. per cwt., according to holder; 1946 is at 270s. to 275s. New-crop, July-August shipment is offering in the U.S. at 202s. per cwt., c.i.f.

CASCARILLA.—Quills are steady at 1s. 6d. to 1s 7d. per lb., spot; siftings are quoted at 1s. 5d. to 1s. 6d.

CASSIA PODS (*C. fistula*).—East Indian, quoted at 65s. per cwt., ex wharf.

COD-LIVER OIL.—British-produced oil of B.P. quality is quoted from 12s. to 13s. per gall., delivered in the United Kingdom.

COLCHICUM.—Spot. Corms are offered at 7s. 6d. to 8s. 6d. per lb.; seeds are available at 30s., spot.

COLOCYNTH.—Fine-white pulp, spot, is easy at 1s. 7d. per lb.

DERRIS ROOT.—Controlled price of the root and "other rotenone materials" is 2s. 4d. per lb., ex warehouse.

DRAGONS BLOOD.—Singapore reboiled No. 1 is at £70 per cwt., spot; second-grade material is available at £50.

ELEMI.—Parcels of Manila No. 1 are offered at 2s. 3d. per lb., spot.

ERGOT.—Portuguese is offered at 4s. 3d. to 4s. 4½d. per lb., spot; 3s. 10d., c.i.f

EUPHORBIUM—Spot quotations are maintained at from 85s. to 90s. per cwt.

FRANGULA BARK.—Quills are offering on the spot at 2s. 2d. per lb.

GAMBOGE.—Siam pipe on the spot is offered at £55 per cwt., duty paid.

GENTIAN.—French natural on the spot is offering at 75s. per cwt.

GINGER.—Jamaica No. 1 is quoted at 115s. per cwt., spot; No. 2, 97s. 6d. to 100s.; No. 3, 92s. 6d.; new-crop No. 3, March-April, 87s. 6d., c.i.f. Sierra Leone is offered at 60s.; new-crop, May-June shipment, 50s., c.i.f.

GUAIACUM RESIN.—Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

GUARANA SEED.—Fine powder on spot is quoted at 5s. per lb.

GUM ACACIA.—Kordofan cleaned sorts, quoted 67s. 6d. per cwt., spot London; March-April shipment, 60s., c.i.f. Bleached No. 1, quoted at 140s., ex store. Talha cleaned, 40s. per cwt., ex warehouse; shipment, 37s., c.i.f.

GUM KINO.—Indian spot, 9s. per lb.

GUM MASTIC. — A parcel of No. 2 is offering at 14s. 3d. per lb.; no No. 1 is offering on the spot.

HENBANE.—B.P. is quoted at 4s. 6d. per lb., spot. Egyptian (*H. muticus*) is offered at 105s. per cwt., spot; 80s., c.i.f.

HENNA.—Egyptian is offered at 125s. to 145s. per cwt., on the spot; Indian, 100s.

HONEY.—Agreed rates per cwt. for Australian or Jamaican honey, for manufacturing purposes, are as follows: In original packings (56-60 lb. tins for Australian or 3½-cwt. barrels for Jamaican), for quantities of 10 cwt. or more, 96s.; less than 10 cwt., 105s., net, carriage paid. Refined repacked honey is available at the following rates per cwt.: In 7-14-lb. tins, 145s.; 28-lb. tins, 130s.; 56-lb. tins, 120s., carriage paid, subject to wholesale discount of 8½ per cent.

JUNIPER.—Italian berries, quoted at from 55s. to 60s. per cwt., duty paid.

KARAYA.—No. 1 gum quoted at 220s., and No. 2 at 180s. per cwt., spot.

KOLA NUTS.—Steady, with only a small business done. African quarters are quoted at 5d. per lb.; African halves, 3d. to 5d., according to quality; Jamaican washed halves, 5½d. per lb.

LANOLIN.—Makers' prices are £125 per ton for B.P. ANHYDROUS and £110 for B.P. HYDROUS, delivered U.K.

LIQUORICE.—Anatolian natural root is offered at 52s. 6d. per cwt., spot. Syrian natural is steady at 49s. 6d. per cwt. on the spot. Italian block, 375s. per cwt., spot. Italian stick (1-oz. and 2-oz.) is quoted from £450 to £535 per ton, as to quantity and grade. Turkish block is steady at around 240s. per cwt.

OLIBANUM.—Fair to good drop is quoted from 200s. per cwt.; pea size, 210s.; good garblings, 170s.; seeds, 175s.; siftings, 100s.

ORANGE PEEL.—Spanish quarters, 1s. 3d. to 1s. 6d. per lb., spot; sweet ribbon is quoted at 1s. 9d.; bitter ribbon, 1s. 3d. in Liverpool.

ORRIS.—Florentine, spot, 185s. to 195s. per cwt., according to quality. Verona, for shipment, 105s., c.i.f.

PAPAIN.—East African No. 1 is offering at 29s. per lb. on the spot; Ceylon, 26s.

PIMENTO.—Spot is quoted at 1s. 2d. per lb.; to arrive, 119s. per cwt., c.i.f.

PSYLLIUM SEED.—French black is offered at 2s. 3d. per lb., duty paid.

QUASSIA.—Chips, on the spot, are offered at 40s. per cwt.

QUILLAIA.—Natural bark is quoted at prices from 105s. per cwt., spot.

QUINCE SEEDS.—Cape, on the spot, is quoted at 5s. 9d. to 6s. per lb.

RHATANY.—Spot is quoted at 9d. per lb.

RHUBARB.—Steady. Chinese rough-round on the spot is quoted from 3s. 6d. to 5s. per lb., according to fracture and seller; Shensi flats or rounds on the spot are offered at 10s. to 12s. 6d. per lb., according to quality.

SANDARAC.—Spot offers are at 6s. 1d. per lb.; shipment, 5s. 2d., c.i.f.

SARSAPARILLA.—Jamaican native red on the spot at 2s. 4d. to 2s. 6d. per lb.; shipment quotations are at 2s. 3d., c.i.f.

SENEGA.—Quiet. Spot is offered at from 11s. 3d. to 11s. 6d. per lb.; shipment, 11s., c.i.f

SENNA.—Tinnevelly leaves on the spot, offered as follows: No. 1, 9d. to 1s. per lb.; No. 2, 8d. to 9d.; No. 3, 6d.; No. 4, 5½d. to 6d. Tinnevelly pods, handpicked, 10d. to 1s. 4d.; manufacturing, 5½d. to 6d. Alexandrian pods, handpicked, spot, from 4s. 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing from 1s. to 1s. 9d. per lb. Alexandrian leaves, 1s. 2d. per lb. quoted for f.a.q.

SHELLAC — Spot quotations, ex warehouse, are as follows: F.O.T.N., pure, 335s.; Standard No. 1, 340s.; fine orange, 350s. to 390s. per cwt.

SQUILL.—Italian white is quoted at 67s. 6d. per cwt., spot; Italian red, 84s.

STRAMONIUM.—Hungarian, on the spot, is offered at 115s. per cwt.; Indian, 60s.

STROPHANTHUS.—100 per cent. Kombé is offered at 12s. 6d. per lb., spot.

STYRAX.—Spot quotations are at 9s. per lb., duty paid; parcels landing shortly in Liverpool will be 7s. 9d. per lb., duty paid.

TAMARINDS.—Barbados is quoted at 52s. 6d. per cwt., duty paid.

VALERIAN.—Belgian root is at 175s. to 180s. per cwt., according to holder; Indian, 160s. per cwt.

Essential and Expressed Oils

ALMOND.—Sweet oil (B.P.) is offered at 9s. 6d. to 11s. per lb. Bitter essential oil is quoted from 30s. to 55s. per lb., according to quality and seller.

CITRONELLA.—Ceylon in drums is offered at 4s. to 4s. 3d. per lb., spot; shipment, 3s. 5d., c.i.f. Java is quoted at 10s. to 12s. per lb. on the spot; 8s. 2d., c.i.f.

CLOVE—Quotations for English-distilled bud oil are from 11s. to 12s. per lb.

CORIANDER.—English-distilled is offered at 250s. per lb.

CUBEBS.—English-distilled is offered at 55s. per lb.

EUCALYPTUS.—70-75 per cent. (B.P.) is offering at 4s. 9d. per lb. for drums, and up to 6s. 6d. for smaller quantities; shipment, 3s. 8d., c.i.f.

GERANIUM.—Bourbon is available at prices from 60s. to 70s. per lb., as to grade.

JUNIPER BERRY.—Imported oil is offered at from 25s. to 30s. per lb.; English distilled (B.P.C.) is available at prices from 35s. per lb.

LAVANDIN.—Spot quotations are from 10s. to 12s. per lb., as to grade and quantity.

ORIGANUM.—Quotations are from 18s. 6d. to 20s. per lb., spot, according to holder.

PALMAROSA.—Spot is worth 35s.; shipment, 30s., c.i.f.

PATCHOULI.—Spot quotations are from 50s. to 60s. per lb. for Seychelles and 65s. to 70s. per lb. for Singapore.

PENNYROYAL.—Steady on the spot at from 19s. to 23s. per lb., according to quantity and grade.

PEPPERMINT.—English-distilled "Mitcham," is quoted at 180s. to 225s. per lb.

PIMENTO BERRY.—English-distilled oil is quoted at 47s. 6d. to 57s. 6d. per lb. and upwards, according to quantity and grade.

PINE.—*Pumilionis* is quoted at 18s. to 20s. per lb., spot; *sylvestris*, 12s. 6d.

PINE NEEDLE.—Spot is steady at 19s. to 21s. per lb., for first-grade oil.

ROSEMARY.—Spanish is offered at 8s. to 10s. 6d. per lb., according to quantity.

SANDALWOOD.—English-distilled, in limited supply, is quoted at 75s. to 90s. per lb.

SASSAFRAS.—6s. 6d. per lb., spot.

SESAME.—Refined edible oil is quoted at from 62s. 6d. to 67s. 6d. per gall. of 9 lb.

THYME. — Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Supplies on the spot are offered at from 8s. to 10s. per lb., according to quantity.

VETIVERT.—Java is quoted at 135s. per lb., on the spot; Bourbon, 125s. to 145s.

YLANG YLANG.—Bourbon is quoted at 65s. to 100s. per lb., as to grade and seller.

TRADE MARKS

(From "The Trade Marks Journal," March 3)

"NOXZEMA"; for perfumes, toilet preparations (not medicated) and cosmetics (3). By the Noxzema Chemical Co., Corner of 32nd Street and Falls Cliff Road, Baltimore, Maryland, U.S.A. 648,586 (Associated).

"L'ORENE"; for cosmetics, manicure preparations, shaving creams and toilet soaps (3). By Albert Edward Ainley, 273 Corn Exchange Buildings, Manchester, 4. 650,529.

"CLERGINE"; for soaps, perfumes, essential oils and cosmetics (other than toilet preparations) (3). By Clarice, Parfumeur, 17 Rue de la Paix, Paris, France. 652,433.

"NORE"; for toilet preparations for application to the hair (3). By the Permal Laboratories, Ltd., Salisbury House, Park Road, Hull, Yorks. B653,142.

"FLORAPLAS"; for cosmetic powder cases (3). By F. Taylor & Co., 26 Victoria Place, Fenton, Stoke-on-Trent, Staffs. 653,469.

"HAREM"; for soaps, perfumes, non-medicated toilet preparations and cosmetics (3). By Robert Amon, 143 Cannon Street, London, E.C.4. 653,727.

"LAIT DES HESPERIDES" (in distinctive lettering); for toilet preparations (non-medicated) and perfumes, all in liquid form; "LA VALLEE BLEUE," "MINLYS," "PEUT ETRE" and "TENDRES NUITS"; for non-medicated toilet preparations, cosmetics, perfumes and soap (3). By Lancome, S.A., 29 Faubourg Saint-Honore, Paris, France. 655,071, 655,073-74 and 655,076-77.

"LERAGE"; for cosmetic powder cases and lipstick cases (3). By Evans Components Co., Ltd., Paragon Works, 37 Hockley Hill, Birmingham, 18. 656,029.

"MY ETCHINGS"; for perfumes, toilet preparations (not medicated), cosmetics, sachets for hair waving, soaps and essential oils (3). By Goya, Ltd., 161 New Bond Street, London, W.1. 656,252.

"AFRAP"; for non-medicated toilet preparations and cosmetics (3). By Antiseptic Products, Ltd., 105 Tonbridge Road, Maidstone, Kent. 656,356 (Associated).

"FRAGREEN"; for bath salts, talcum powder, face powder and cream, lipstick, soaps, perfumes, dentifrices, brilliantine and hair lotions (3). By Harry Green, Ltd., Ajax Works, Hertford Road, Barking, Essex. 656,407.

"ORGANOTHERAPIA," initials "R.G." and device of man with the world on his shoulder (word "Organotherapia" and the letters "RG" disclaimed); for glandular extracts and preparations (5). Gedeon Richter (Great Britain), Ltd., Richter House, 14-18 Weedington Road, London, N.W.5. 648,052.

"SCRAM"; for veterinary and disinfectant preparations for external use on cats and dogs (5). By the Hatchwell Co., Ltd., 3 Byron Street, Preston. B648,133.

"PETTALS"; for catamenial appliances and sanitary towels (5). By Mary Hogg, 36 Madrid Road, London, S.W.15. 651,568.

"ECZE-MAX"; for preparations for the treatment of eczema; "PILOSEROL"; for preparations for the treatment of hæmorrhoids; "SIROTEX"; for preparations for the treatment of colds, coughs and bronchial ailments (5). By Kamisa Laboratories, Ltd., Plantation House, 31 Fenchurch Street, London, E.C.3. B653,135, 653,139 and 653,141.

"MENOVITE"; for pharmaceutical preparations and substances (5). By Clinical Products, Ltd., 2 The Green, Richmond, Surrey. 653,163 (Associated).

"FERRONASCIN"; for pharmaceutical preparations for human and veterinary use and infants' and invalids' foods, all containing iron (5). By Roche Products, Ltd., 40 Broadwater Road, Welwyn Garden City, Herts. 653,222.

"CHAPPIE"; for veterinary preparations (5). By Chappie, Ltd., Trading Estate, Slough, Bucks. 653,669.

"ST. MARY'S"; for medicated ointment for human use (5). By St. Mary's Oil Co., Haddon, Bryn Pydew, Llandudno Junction. 655,082 (Associated).

"ALUMINTS"; for pharmaceutical preparations and substances all flavoured with mint (5). By Scott & Turner, Ltd., Andrews House, Gallowgate, Newcastle-on-Tyne. 655,223.

"ANDRORMON" "CORTORMON"; for pharmaceutical preparations consisting of or containing hormones (5). By British Schering, Ltd., 167 Great Portland Street, London, W.1. 655,610 and 655,612 (Associated).

"VETITOXAL"; for pharmaceutical preparations and substances for veterinary use (5). By Savory & Moore, Ltd., 61 Welbeck Street, London, W.1. 656,124 (Associated).

"STAGGERED"; for safety-razor blades (8). By Frank Mansell Newell, 31 Guilford Street, London, W.C.1. 655,007.

"TELLUX"; for electro-medical apparatus (10). By Tellux, Ltd., 17 Edge Street, London, W.8. 654,354.

"COURTIER"; for non-medicated handkerchiefs of paper, etc. (16). By Courtier Co., Ltd., 19 Lansdowne Road, Croydon, Surrey. 647,196 (Associated).

"BLANTEX"; for shaving brushes (21). By A. Campbell & Co. (Kwik-Wash), Ltd., 33 Thynne Street, Bolton, Lancs. 655,630.

(From "The Trade Marks Journal," March 10)

"HENRI BENDEL" in distinctive lettering; for toilet preparations (not medicated), cosmetics, perfumes and brilliantine (3). By Henri Bendel, Inc., 10 West 57th Street, New York, U.S.A. B648,305.

"CUTIFLORA"; for non-medicated toilet preparations, cosmetics and essential oils (3). By White, Nicholson, Ltd., 77 Hunter's Road, Newcastle-on-Tyne, 2. B650,058.

"MARQUISETTE"; for non-medicated toilet preparations, cosmetics, perfumes and soap (3). By Financiera de Parfumeria, S.A., Avenida A20, Panama City, Panama. 652,242 (Associated).

"EUPHORIE"; for non-medicated toilet preparations, cosmetics, perfumes and soaps (3). By Elizabeth le Merdy, 58 Boulevard de la Liberation, Vincennes (Seine), France. B653,450.

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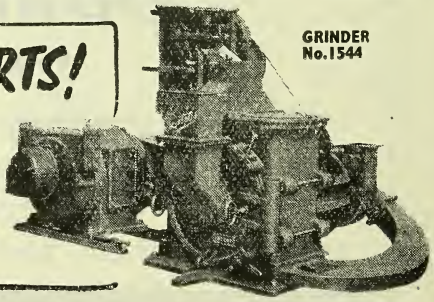

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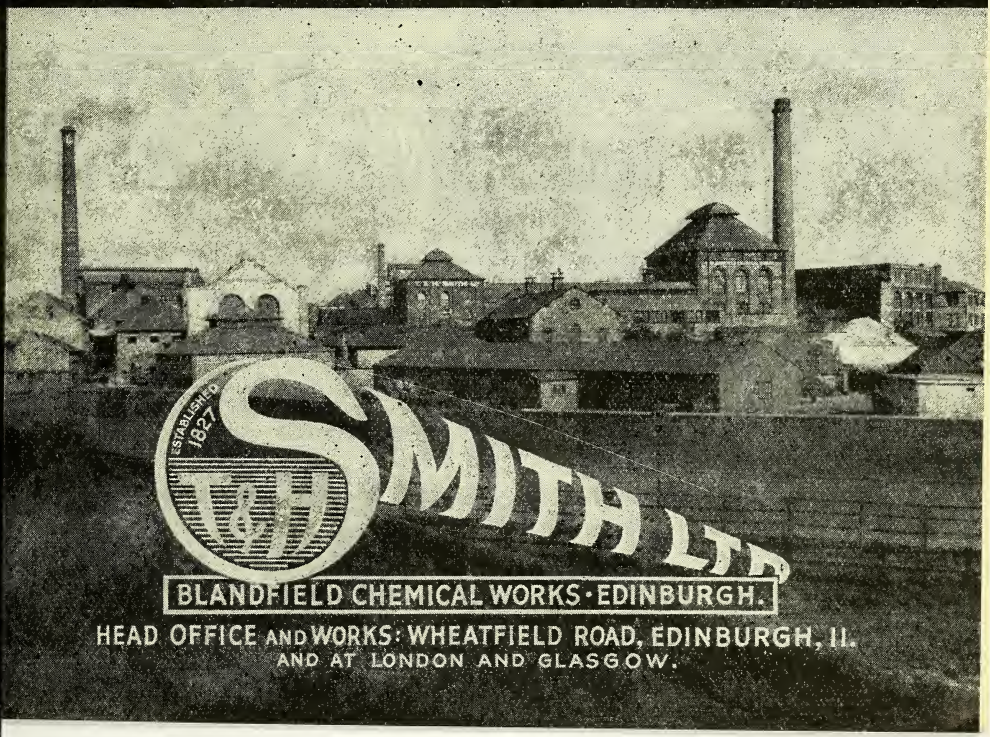

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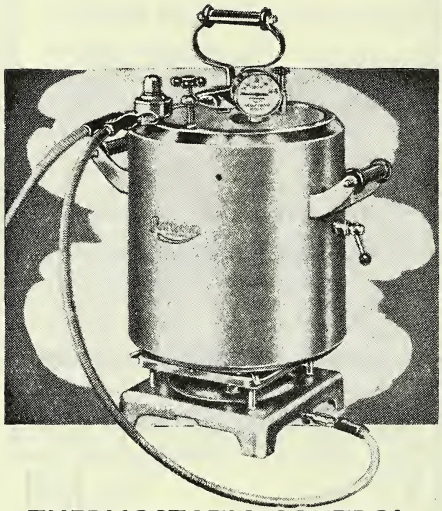

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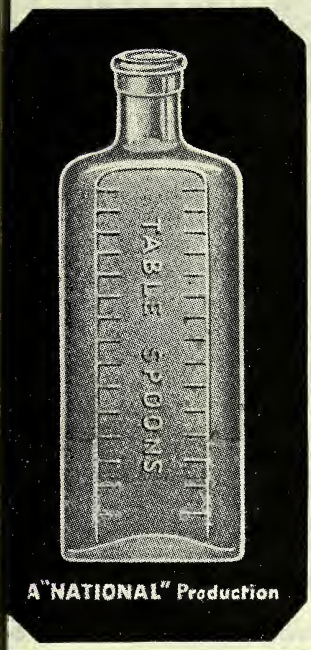

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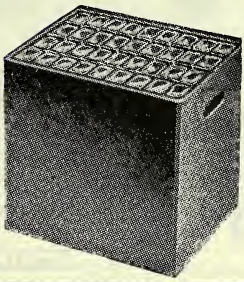

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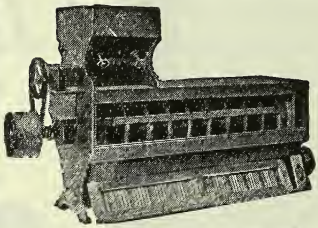

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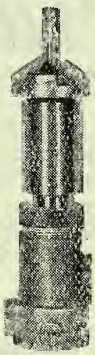

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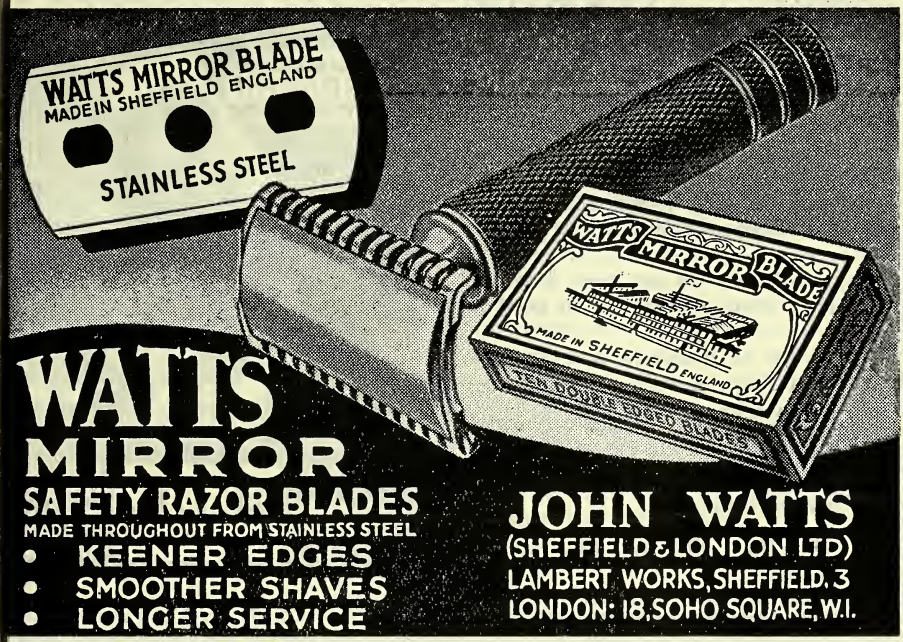

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Retail Price (Protected) Net Wholesale Price
Virus for Rats and Mice, single tube, 2/- 15/- per doz.
3 tubes, 5/-
Virus for Mice only single tubes, 1/6 9/- ,,
3 tubes, 3/-
Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price Wholesale Price
Bottles 6/- each ... ... 4/6 each
,, 4/6 ,, ... 3/9 ,,

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25 p.c. Monthly Account, or 33⅓ p.c. Cash with Order.

	Retail	Monthly A/c	Cash with Order
¼ gall. tins	10/-	7/6	6/8
½ ,, ,,	18/-	13/6	12/-
5 ,, ,,	80/-	60/-	53/4

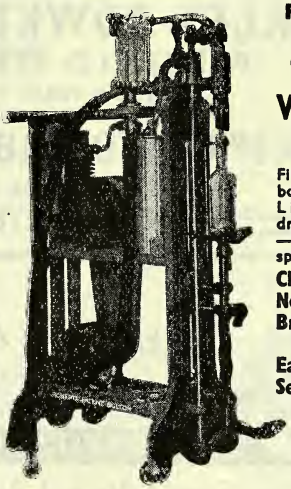
DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, etc.

Retail Prices (Protected) Wholesale Prices
In cartons 9d. each ... ... 6/9 per doz.
,, 1/6 ,, ... 13/6 ,,
,, 3/- ,, ... 27/- ,,
Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS

To be obtained from
HALLER LABORATORIES, LTD.
325 Borough High Street, LONDON, S.E.1
Telegrams: "Viradana, Sedist, London." Telephone: Hop. 271



ROBERTS' PATENT "LEO" VACUUM FILLER

Fills all sizes of bottles with Liquids from drachm to quart —long, short or sprinkler neck.

Clean & Rapid
No Over Filling
Broken Bottles Rejected
Easy to clean
Self Rinsing

Write for Particulars

Roberts' Patent Filling Machine Co. Ltd.
BOLTON, LANCASHIRE

Makers of every description of Bottle Fillings and Shallow Jar and Tin Filling Machine for the Chemists' use

ALL RIGHTS RESERVED

FOR PERSONAL HYGIENE REQUEST

"MARIE"

SANITARY TOWELS

The Immaculate Protection

Each towel consists of 100 per cent. Pure Bleached Cotton Wool with Rayon/Cotton Gossamer covering, including Looped ends, which affords **Maximum Absorbency with Perfect Comfort**

Always insist on 100 per cent Bleached Cotton Wool, nothing is so good

To be sure of complete and absolute satisfaction there is only **one** answer:—

"MARIE" Regd. *THE NON-MIXTURE TOWEL*

AIR BEFORE WEAR

Trade Enquiries (Retail):

D O W N I N G S

TEL: MAIN 5730 EST. 1851

PLANE ST. MILLS, OLDHAM, LANCS.

TEL.: CANONBURY 3401

BUCKLEY BOWKER TABLET CO. LTD.

PARKFIELD STREET, LONDON, N.I

OVER 40 YEARS' PRACTICAL EXPERIENCE

COMPRESSED TABLETS EVERY KIND AND SHAPE, BULK OR PACKED, UP TO 1½" SQUARE OR ROUND.

PRIVATE FORMULAS COMPOUNDED BY EXPERTS

We have specialised for many years in— **CONTRACEPTIVES** (Special Formulas), TABLETS and JELLIES

Surgical & Manicure Specialists Ltd

SHEFFIELD 3: ENGLAND

We manufacture all kinds of:-

SCISSORS · TWEEZERS · FORCEPS · NAIL & MANICURE FILES

In Stainless Steel—Nickel Plated and Chromium over Nickel

Our order books are full for some time ahead, and immediate deliveries cannot be promised. We shall, however, welcome your enquiries for forward deliveries. *(WHOLESALE ONLY SUPPLIED)*

CARUS PRODUCT

SURGICAL DRESSINGS

by

CARUS

OF DARWEN

HODDLESDEN MILL • ATLANTIC MILL • HAMPDEN MILL • SPOTLAND BRIDGE MILL

MENOVO

The Rational Therapy for

SPASTIC DYSMENORRHŒA

MENOVO, an entirely new approach to the symptomatic and antispasmodic therapy for menstrual pains, is now being introduced to the medical profession by direct mail and press announcements. A national campaign has also been arranged in the daily press, provincial newspapers and women's magazines.

FORMULA: Bromisolvalerylurea ¼ gr. (16.25 mg.); Carbronal ¾ gr. (48.75 mg.); Acetphenetidin (phenacetin) 2⅛ gr. (140.00 mg.); Ephed. hydrochlor 1/30 gr. (1.95 mg.); Codein phosph. 1/20 gr. (3.25 mg.); Ext. bellad. sicc. 1/15 gr. (3.90 mg.); Sod. bicarb. 2 gr. (130.00 mg); Aromatic carminative q.s., Excipient q.s.

Smalls through wholesalers. Bonus parcels obtainable only from the sole distributors for the U.K.

S. MAW, SON & SONS LTD.

C.P.L.

Manufactured by

CLINICAL PRODUCTS LIMITED

RICHMOND, SURREY

FACT-NOT FICTION

says **ANONA WINN**
Famous Stage and Radio Star.

Miss Anona Winn is recommending AURORAL DYES in millions of advertisements in periodicals and magazines during 1948.

Less 5% for cash in 7 days

AURORAL
Cold Water Dyes
48/- gross

WINNER
Home Stocking Dyes
24/- gross

WHITAKERS OF KENDAL

STOCK

VELVEX

The toilet tissue that housewives ask for by name

• IN HANDY PACKETS OR ROLLS

VELVET CREPE PAPER CO. LTD PRODUCT **TOILET TISSUE**
VELVET CREPE PAPER CO. LTD

Keenest and Cleanest

There isn't a better blade made than the new "Wanie," now designed with cut-out corners, fully slotted to fit **ALL** holders, and manufactured from High-Grade Surgical Steel. Selling at 1/9 per dozen including purchase tax, "Wanie" is shaving's best value. Free Show-card for your counter. Send for stocks today.

1/9d. per dozen including P.T.

LONDON & PROVINCIAL FACTORS LTD.
"Wanie" House, Tottenham Court Rd., London, W.1
NAME YOUR USUAL WHOLESALER
Wholesalers Enquiries Specially Invited

sun glasses

for the
HOME TRADE & EXPORT

ENQUIRIES
invited by
WHOLESALERS ONLY

•

FLENOVAK LIMITED
Manufacturing Opticians
FULWOOD HOUSE, FULWOOD PLACE,
HIGH HOLBORN, LONDON, W.C.1
Telephone: HOLborn 8308
Telegrams: Flenovak Holb London
Cables: Flenovak London

EXPORT STILL COMES FIRST

Sold only by Chemists
Recommended by them

FINEST SURGICAL RUBBER PRODUCTS

MADE IN ENGLAND BY

HERBERT FROMM LIMITED

GLASGOW TERRACE, GROSVENOR ROAD, LONDON, S.W.1

TELEPHONE : VICtoria 6258. GRAMS : MORFI, SOWEST, LONDON

OLYMPIA (Perfumery Section)

B.I.F. STAND No. E.7

Every bit as efficient as the famous original PROMOL MOTH RINGS, neatly packed in a red white and blue transparent pack and housed in an attractive eye-catching red white and blue counter display carton they are proving the sensation of the Season.

SEND YOUR ENQUIRIES NOW !

PROMEDICO PRODUCTS LTD.

21/22 Turle Road, London, N.4. *Telephone: ARChway 2771.*

Interchangeable PRICE TICKETS

These Interchangeable price tickets meet the present-day demand of odd and varying prices.

They are easily arranged and can give as many as 4,000 different combinations of prices with 1 dozen tickets.

SAMPLES AND DETAILS ON REQUEST

Wm. POTTER & SONS

Designers and Actual Manufacturers of Window Displays, Display Fittings and Price Tickets for over 100 years.

Only Address:

ALDERSGATE WORKS, FELSHAM RD. PUTNEY - S.W.15

Telephone: PUTney 6232

KEATING'S the oldest established Insect Powder now contains D.D.T. It *KILLS* all Household Insects and remains effective for a long period.

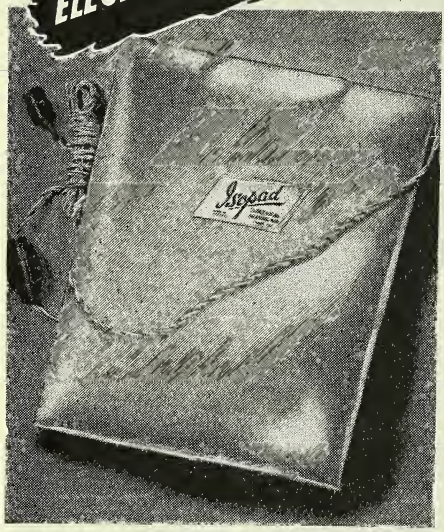
An extensive Advertising Campaign, stressing the *additional* strength of KEATING'S POWDER as a result of the addition of D.D.T. will be launched this spring. You can recommend KEATING'S (+ D.D.T.) with the utmost confidence to KILL Moths, Ants, Fleas, Beetles, Cockroaches and even Bugs.

Be sure your Stocks are adequate to meet increased demand. Sold in Cartons 6d. and 1/-. Wholesale Terms for Minimum Order of £10 net are Face value less 25% and 12½%, Carriage and Packing Free.

KEATING'S PLUS D.D.T

THOMAS KEATING LTD., BILLINGSHURST, SUSSEX

THE Isopad ELECTRIC HEATING PAD



UNIQUE FEATURES of THE ISOPAD TRIUMPH

Fibre glass safety construction.

The thermostatically controlled heating element is completely insulated and nested in thick folds of soft fibre glass wadding.

Moisture proof cover. The Pad is soft and flexible like a pneumatic cushion giving constant warmth and comfort.

12 months guarantee.

Wholesale Distributors to Chemists :—

MAW'S OF BARNET

Isopad yields good custom, profit and prestige

Write for full particulars and leaflets:—

ISOPAD LIMITED

14, POLAND ST., LONDON, W.1

Specialist makers of pliable heaters for home and industry

CONSISTENT

PURITY

STRENGTH

QUALITY

POSTLIP

MILL 633

Filter Papers

EVANS, ADLARD & CO. LTD · WINCHCOMBE · GLOS.

12097

Now in prompt Supply

Selka

The

Quality Brand

of Surgical Rubber Goods
Finest and most reliable !

SELKA LTD.

23 DERING ST., BOND ST., LONDON, W.1
Mayfair 2412

Factory ! - TRADING ESTATE, SLOUGH, BUCKS

"Rod-Antu"

kills RATS and MICE

and can be recommended with every confidence

It is the latest developed Rodenticide giving amazing results

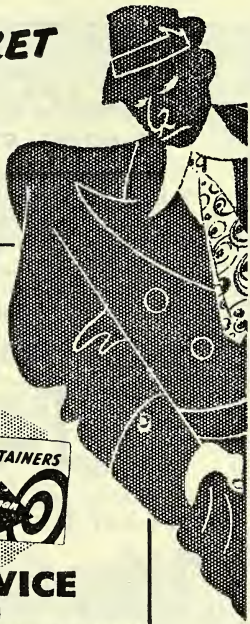
2 grains are sufficient to kill a fully grown rat

1/6 and 5/- per tin, subject to 33⅓% discount less and extra 10% on orders of 3 doz. small size or 1 doz. large size

Display material and technical literature available

RODMILL CHEMICAL CO. LTD.
49 St. Anne Street, Liverpool 3

DON'T HELP THE BLACK MARKET TO EMPTY CONTAINERS



Be certain that every empty C.R.S container goes through C.R.S channels only.

Save C.R.S containers from the Black Market by handing them to the C.R.S collector only.
Save by careful opening and handling.
Save by resolutely refusing to give away empty C.R.S containers.

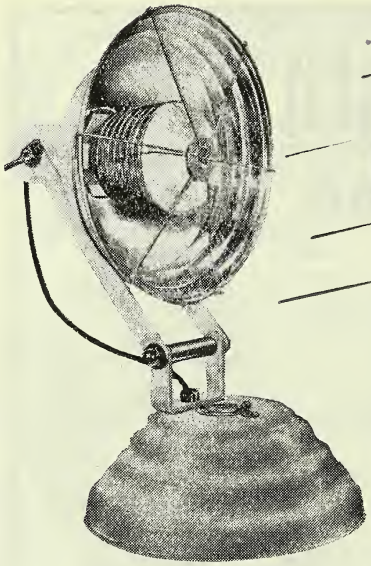
PLAY YOUR PART IN THE NATIONAL ECONOMY DRIVE.
SAVE C.R.S CONTAINERS . . .

LOOK FOR THIS VAN SIGN BEFORE YOU HAND THEM OVER

CONTAINER RECOVERY SERVICE

S.P.D. LIMITED, UNILEVER HOUSE, BLACKFRIARS, LONDON, E.C.4

CRS 49-683



A "minor" sensation

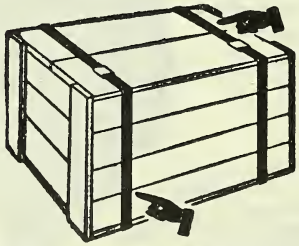
SUN LAMPS
Perihel
BRITISH MADE

This is the latest addition to the Perihel family. He inherits all the outstanding features of his famous father, the Pira: a powerful 600 watt element, combined with a handsome finish and a high rate of efficiency. The "Minor" is compact and adjustable. Price £8-8-0. Free of Purchase Tax on production of a Doctor's Certificate.

PERIHEL LTD. (Dept. C.D.4) EDGE ST., LONDON, W.8
Tel: PARK 7870

USE :—

WireBands
BANDING SYSTEM
It's speedy! It's simple!!
Above all—It's Secure!!!



THESE BANDS WILL ENSURE YOUR GOODS ARE DELIVERED INTACT

WireBands
114, LANCEFIELD STREET, LONDON, W.10
Ladbroke 0725

FOR BETTER SALES

Sole Makers THOMAS WARD & SONS, LTD.
Wardonia Works Sheffield, 1.

2D DYANESE 3D
FADELESS DYES

STOCKING (except Black), **16/- gross**
CURTAIN & COLD WATER, 24/- gross
(including Black Stocking)

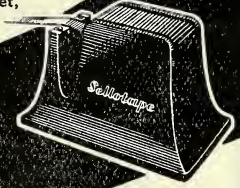
Please order from our Sole Agents

Gt. Britain—W. B. Cartwright, Ltd., Rawdon, Leeds
N. Ireland—T. McMullan & Co. Ltd., 42, Victoria Street, Belfast
Eire—May Roberts (Ireland) Ltd., Grand Canal Quay, Dublin, C.4

This is the SEALING for selling!

★ Here's an eye-catcher for your product It's Sellotape—the modern method for sealing jars; and the smart, quick sealing for packets and parcels. And it's ideal for fixing and protecting labels. Sellotape is supplied in colourless transparent and a range of colours, plain or printed with your sales message, and in many widths. No moistening necessary — Sellotape ensures secure air-tight sealing at a touch. Seal with Sellotape and put punch in your packs.

GORDON & GOTCH, LIMITED,
Dept. C.D. 5,
75/79 Farringdon Street,
London, E.C.4



Sellotape
SELF-ADHESIVE CELLULOSE TAPE

Death to Flies!

SCOTT'S
D.D.T
FLY and MOTH PAPERS

DESTROY FLIES ON CONTACT

3D. EACH

THIS YEAR'S FASTEST SELLING LINE

Scott's D.D.T. Fly Papers will clear a room of flies, gnats, midges, etc., in no time. D.D.T. is absorbed through the pads of the flies' feet which causes death very quickly.

PRICE 24/- PER GROSS
TRADE & WHOLESALE ENQUIRIES INVITED

Sole Manufacturers:
J. & K. SCOTT,
MANUFACTURING CHEMISTS,
81, SUMMER ROW • BIRMINGHAM. 3.

DISTRIBUTORS: SWINNERTON'S
SHIRE OAK WAREHOUSE • STONNALL • WALSALL.

Tintex

THE WORLD'S
LARGEST-SELLING
HOME DYE

CHEMISTS' AGENTS:—
Thos. Christy & Co., Ltd.
Farnham, Surrey.

WE'RE TELLING ALL SHAVERS OLD AND NEW . . .

Yes, we're telling them about Gillette — the sharpest edge in the world. We're telling them through a continuous, nation-wide press advertising campaign, week in, week out. We are asserting without fear of contradiction that for all sorts and conditions of men 'Good mornings' begin with Gillette!

Order your requirements. You should now be getting your supplies of Gillette Blades regularly. If not, please write to Gillette Industries Ltd., Great West Road, Isleworth, Middlesex, giving the name of your usual wholesaler.

'Good Mornings' begin with Gillette

bandbox shampoo
The new cream shampoo specially for DRY hair opens up a vast arena of sales. For the first time in this country the double process of cleaning and re-conditioning, so essential for *dry* hair is achieved in *one action*. Announced March 1st to the trade, the women of this country have extended a grateful welcome to this brilliant new Bandbox product. Jars 4/8 including Purchase Tax. 28/6 dozen plus Purchase Tax.
Ashe Laboratories Ltd., 120/122 Victoria St., London, S.W.1

DON'T ORDER

TOMORROW

ORDER TO-DAY

YOUR

CLARENDON

MINTS

MEDICATED

RETAIL

8½

INC TAX

57/- GROSS
Plus 33⅓ P.T.

N.B. Would Chemists kindly note that we are able to deliver stocks within seven days of receipt of order.

ALL ORDERS ARE BEING DELIVERED IN STRICT ROTATION

Order from your usual Wholesaler or from

JOHNSON AGENCIES (*Proprietaries*) LTD

Clarendon Works, 32-40, North Street, HORSHAM, SUSSEX

The HOUSE of HAYWOOD
Est. 1830
MANUFACTURERS & DISTRIBUTORS
EVERYTHING SURGICAL
ELASTIC HOSIERY, BELTS & TRUSSES
CHEMISTS SUNDRIES, COTTON DRESSINGS
PROPRIETARY MEDICINES
VAN DELIVERY SERVICE
Enquiries invited
WHOLESALE ONLY

Members of the
*N.U.M and
*P. A.T. A., C.F

Regd. Office & Works:—
11, 13 & 23, WARSER GATE,
NOTTINGHAM.
'Phone: 40488 and 45164
'Grams: APPLIANCE NOTTM.

Whatever they call it . . .

Whether they ask for B.D. or Baume Dalet or even just Bunion Dressing, your customers mean B.D. Baume Dalet, the remarkable French remedy which has already brought relief to thousands of sufferers all over the country.

(BAUME DALET PARIS)
B.D.
(BAUME DALET)

There's nothing like B.D. Baume Dalet. Every sale means *extra* business and *extra* profit.

Made expressly for
BUNIONS

Be sure you keep a stock in tubes at 3/9 (inc. tax) and of the "outfit" at 7/6.

From your usual Wholesaler or direct from:

SPLENDOR LABORATORIES
Sole Distributors for U.K.
7c LOWER BELGRAVE STREET, LONDON, S.W.1
and at NOTTINGHAM.

SOAP
SHAVING STICK
OINTMENT
TALCUM

—for Sensitive Skins!

In the Public Eye . . .

We have continued to support the retailer by keeping JIFFY DYES always in the public eye. Now that supplies are growing better each day the value of firmly upholding "goodwill" must inevitably show itself. It pays to stock "goodwill" lines.

JIFFY DYES

Also DRUMMER DYES

Made by Wm. EDGE & SONS LTD. - BOLTON

219

LABELS OF DISTINCTION

For Wholesale Manufacturing & Retail Chemists

MEDICAL and DISPENSING LABELS, TOILET, COSMETIC and PERFUME, largest range of STOCK LABELS (attractive two-colour 50-60 wordings), SHAMPOO POWDER ENVELOPES and INNERS, also SACCHARINE TABLET ENVELOPES, with name and address. We can also offer multi-coloured advertising stamps in exclusive designs.

Send for our extensive sample range

CARILLON PRESS LTD

Artists in the Production of Fine Labels

BOURNEMOUTH

BROBAT BRODRY BROAMAT BROBAT SUDS

BROBAT SUDS BRODRY BROAMAT BROBAT

. . . and now

BRODRY BROAMAT BROBAT SUDS BROBAT

BROAMAT BROBAT BRODRY BROBAT

BRODRY

BRO

BROAM

Brobat Disinfectant Germicide is the latest addition to the BROBAT range. Stock up NOW with the powerful (4 times stronger than carbolic) non-poisonous non-staining Germicide and take advantage of the National Press Advertising Campaign.

Limited supplies of BROAMAT, the coupon free liquid woolly washer, are now available.

Enquiries invited from Wholesalers, and stockists in England & Wales.

BROBAT DISINFECTANT GERMICIDE

Brobat Distributors, Ltd., 241 Main Rd., Sidcup. Tel.: Footscray 1328

SELL MORE SEMO

TRADE MARK

CLOTHES WASHING POWDER

because

lathers so!

SEMO is the new, *different* Clothes Washing Powder with definite advantages, made possible only by the scientific work of expert research chemists. Not a substitute, SEMO supersedes harsh acting, hand-coarsening preparations. Protects sensitive skins while ensuring easier, better, quicker results. SEMO is unequalled for heavy washing. A nationally advertised line with a good profit margin.

8½d NO COUPONS

Sole distributors:—
SPLENDOR LIMITED
22 Fletcher Gate, Nottingham
(Tel. 40384) and 7c Lower Belgrave St., London, S.W.1 (Tel. Sloane 9144)

SECOND TO NONE

Malt Extract Tablets

A delicious, sustaining sweet for dissolving slowly in the mouth. Children love them. Supplied in counter display boxes of 2 dozen.

RETAIL 7½D. INC. TAX

ANDERSON RICHARDS & CO. LTD.
37 Eastcheap, London, E.C.3

for INDIAN BOTANICALS, CRUDE DRUGS, FOREST PRODUCTS, GUMS, MEDICINAL PLANTS, SEEDS, SPICES, ETC. to B.P., U.S.P., B.P.C. & N.F. Standards.

Export Enquiries to:
THE INDIGENOUS MANUFACTURES & PRODUCE (Sales) CO.
160 Govindappa Naick Street, Madras
Cables: Dandelions

efficiency in emergency

The germicidal efficiency of 'Dettol' remains high even in the presence of blood, pus and wound debris. This property, coupled with its wide margin of safety, makes 'Dettol' invaluable for use in emergencies, not only by you, but in the less qualified hands of others who in emergency might have to render first aid.

'DETTOL'

THE MODERN ANTISEPTIC

RECKITT & COLMAN LTD., HULL AND LONDON
(PHARMACEUTICAL DEPT., HULL)

An advance in

Asthma

medication

Respaton

TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma, Bronchial Asthma, Bronchitis, Emphysema and cognate ailments.

Action

Respaton Tablets are : Antispasmodic, Antipyretic, Analgesic, Sedative.

Formula

Ephedrine Hydrochloride ...	¼	*grain*
Ext. Bellad. Sicc. B.P. ...	1/10	,,
Dioxyamidopyrine	½	,,
Ipecac Pulverat. B.P. ...	½	,,
Theobromine	⅜	,,
Calcium Lactate	⅜	,,
Lactose	⅜	,,

Respaton Tablets are now being introduced to the Medical Profession. Chemists would be well advised to lay in a small stock in anticipation of prescriptions.
In Bottles 25 tablets 4/4d.; 100 tablets 15/6d., inc. P.T. Usual trade terms.

MEDICAL SPECIFICS LTD.
West India House
Maryland Street, Liverpool, 1.

SO WILL THE PUBLIC! This new poster is appearing throughout the summer. Get in stocks of BRONTAN now! Be ready for the summer rush.
BRONTAN Ltd., 1 Broad Street Buildings, Liverpool St., E.C.2
'Phone: BISHopsgate 6383

Eade's PILLS

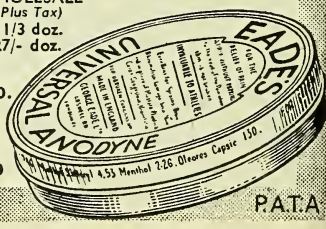
Eade's Rheumatic and Gout Pills, the remedy with a 100 year old fame.

RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.
6/3	46/- doz.

Eade's UNIVERSAL ANODYNE

Another Eade's product always in demand.

RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.



EADE'S PILLS LTD.
(Dept. C. & D),
232 Goswell Rd.,
LONDON, E.C.1.
Clerkenwell 3370

P.A.T.A

NORTH BRITISH

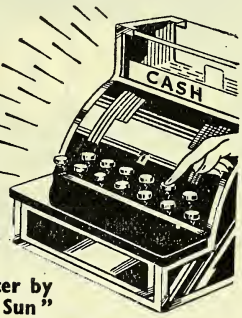
FOCAL POINT FOR RUBBER PRODUCTS

Air Cushions, Hot Water Bottles, Nursing Aprons, Water Beds, Cot Sheets, Combs and many other high quality NORTH BRITISH Rubber Products in steady demand are obtainable through your wholesaler.

HW14

THE NORTH BRITISH RUBBER COMPANY LIMITED EDINBURGH & LONDON

The Brand that rings the bell!



Keep your cash register busy this winter by showing the attractive "Autumn Sun" display card, linking up with "Autumn Sun" national advertising. These, plus "Edme" quality and "that butterscotch flavour," ring a bell with the public.

NATIONALLY ADVERTISED
Advertising in national Press will appear throughout the Season. FREE—handsome Jar-holder display showcard in full colour creates sales.

EDME
Autumn Sun
MALT AND OIL

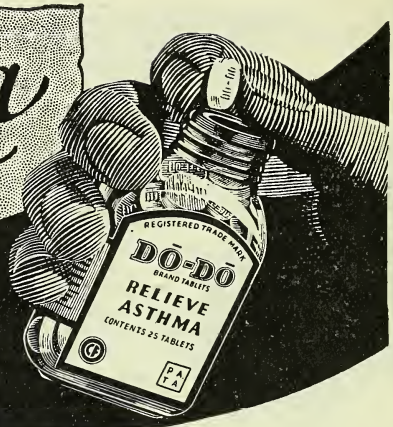
Manufactured from finest ingredient obtainable. *Full particulars from :*

EDME LIMITED · IMPERIAL HOUSE, REGENT ST., LONDON W.1.
TELEPHONE REGENT 5563-4

Asthma

Dō-Dō
TABLETS

ONE often gives relief in 30 seconds



Sole Manufacturers:
INTERNATIONAL LABORATORIES Ltd.
1-3 Smedley St., London, S.W.8
MACaulay 3481

PEBOC LTD
MANUFACTURERS OF
VITAMIN D3

Enquiries to
SALES OFFICE,
629, TOWER BUILDING,
WATER STREET,
LIVERPOOL. 3.

LABORATORIES · GREENFORD · MIDDX

A good source of worthwhile business for you.

save soap use- **OCTIM** REGD

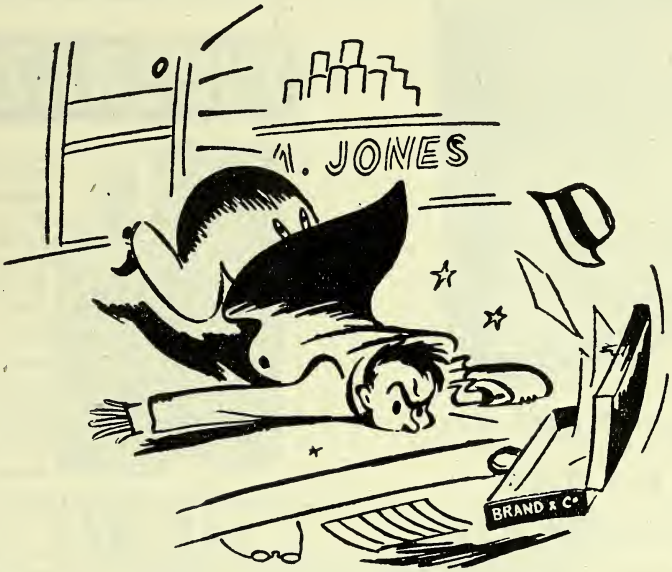
makes water work wonders

2½ PER 14 OZ BOTTLE
NO COUPONS

WITH SILKS WOOLLIES, LINGERIE & DELICATE FABRICS

Simmonds Products Ltd., *A Company of the Simmonds Group*, 48 Dover St., London, W.1 (37)

Little-known Limericks—No. 4 (Reprinted)

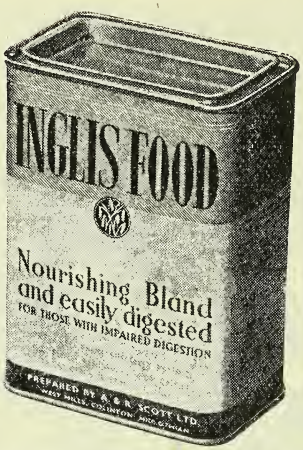


There was a young trav'ler from Brand,
Who had all the answers in hand.
But although ever willing,
His reception was chilling
When supply was not up to demand.

We do not claim to know all the answers on how to meet the demands of your customers with the limited stocks available today. But we are doing the best we can for *our* customers by distributing our supplies on a strictly fair quota basis.

Brand & Co. Ltd.

London



The food for

INVALIDS

CONVALESCENTS,

DIGESTIVE SUFFERERS

and the ELDERLY

EASIER TO DIGEST THAN MILK ALONE, Inglis is a highly nutritious oat food, fortified with iron, calcium, phosphorus, vitamins D and B_1. It is particularly easy to digest — even milk becomes more digestible when Inglis is added.

Hospital use has shown that even those suffering from severe digestive disorders benefited from Inglis Food. You can therefore recommend it with confidence.

Inglis Food makes an ideal bedtime or breakfast dish.

FREE FOR YOUR CUSTOMERS

You are invited to write to the address below for a free supply of Inglis Food booklets "Controlled Digestion"—a useful guide for digestive sufferers.

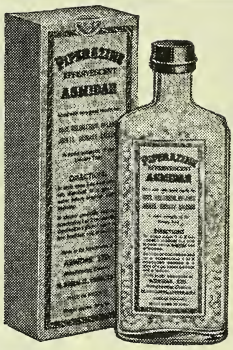
INGLIS FOOD

CONTROLS ITS OWN DIGESTION

A. & R. SCOTT LIMITED, WEST MILLS, COLINTON, MIDLOTHIAN

ASMIDAR SPECIALITIES

PIPERAZINE



This highly efficient antiseptic of the Urinary Tract is prescribed for Gout, Rheumatism, Inflamed Joints, Urinary Calculli.

Other Asmidar Specialities include Glutonine (Asmidar), Sulphazol Cream (Asmidar) and Ichthammol B.P.

Literature and full information gladly supplied on request

ASMIDAR LTD.

16 DOUGLAS STREET, LONDON, S.W.1

Telephone: VICTORIA 5556

THE RELIABLE

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ALL ELASTIC SANITARY BELTS

EDOSAN LTD. 189, CARLTON VALE, LONDON NW6

PERCENTA

THE CONTAINER PEOPLE

Containers of Metal Glass, Aluminium and Plastic

(PERCENTA LTD.) Tel: Hop 0516 (6 lines)

Percenta House, 130/2 Tooley Street, London, S.E.1.

SURPLUS TO REQUIREMENTS

For immediate delivery from stock:—

- Several Cases Finest Italian Liquorice Juice, approx. 1 oz. Sticks. Packed in 1 kilo cartons, @ 4/1 per lb.
- About 18 cwts. STEARIC ACID BLOCK, M.P. 120°, @ 2/9 per lb.
- 1 ton ANHYDROUS LANOLINE B.P., @ £117 - 0 - 0 per ton.

All prices include Carriage Paid. Packages free

ENQUIRIES INVITED. BOX 3/211

IMPORTANT ANNOUNCEMENT

From April 1st 1948

OPTREX LIMITED

OPTREX EYE LOTION
OPTREX EYE BATHS
OPTREX EYE COMPRESSES
FAMEL COUGH SYRUP
FAMEL PASTILLES

PERIVALE LABORATORIES LIMITED

QUANT'S WITCH HAZEL
PERIVALE
CHILBLAIN OINTMENT

These famous products will be sold through one selling agent —Keldon Ltd. This new arrangement will save you time and trouble, means one order, one invoice, one payment. We know that you are always anxious to simplify your work, and we feel sure that you will welcome this new arrangement.

KELDON LTD

Selling Agents for **OPTREX LIMITED · PERIVALE LABORATORIES LIMITED**

WADSWORTH ROAD · PERIVALE · MIDDLESEX

TELEPHONE: PERIVALE 4441 (3 LINES) TELEGRAMS: OPTREX PHONE LONDON

BONUS OFFER
14 to the dozen

HERE IS AN OPPORTUNITY TO SECURE 75% PROFIT ON A CONSISTENTLY ADVERTISED LINE.

JANSSEN'S *Herbal* TABLETS

PARCEL No. 1. contains 28, 2/6 size invoiced as 24.
With your regular 33⅓ off and the extra four packets your PROFIT works out at 75% on cost.
Your Invoice Total *(including tax)* **is . . 46/-**
The Parcel sells for 70/-

PARCEL No. 2. contains 14, 5/11 size and 14, 2/6 size, each invoiced as 12.
Your Invoice Total *(including tax)* **is . . . 76/10**
Parcel sells for 113/10 Profit 75% on cost.

PLACE YOUR ORDER PROMPTLY—**PLEASE**

DR JANSSEN LTD · 52 BAKER ST · LONDON · W·1
WELbeck 6430

Your Wholesaler has full particulars

Priority claim

THE meat and malt extract in Winox—which doctors and nurses have recommended for the past thirty years — has been predigested by a special process. Supplies are short so please help us to give a priority claim to those who need it most.

Sole Distributors:
BROOKS & WARBURTON LTD.
232 VAUXHALL BRIDGE ROAD
S.W.1.

WINOX
Registered Trade Mark

BEAUFOYS WINES LTD., KINGSTON, SURREY

DESBY'S
pure
HONEY, GLYCERINE & LEMON
Cough Linctus

a popular product at a popular price, made from *real* Lemon Juice, *pure* Honey and Glycerine. The ingredients speak for themselves — you cannot afford not to stock this quick-selling line.

Ask also for particulars of our other pure food products

Sole Distributors in Scotland
Pharmaceutical Distributors Ltd., 187, St. Vincent Street, Glasgow, C.2.

WINTER ADVERTISING CAMPAIGN includes leading newspapers in all districts. Now is the time to stock and display.

Manufactured by
D. Bee Food Products Ltd., New Charles St., Goswell Rd., E.C.1.

P.A.T.A.

Two additions to Alka-Seltzer sales staff...

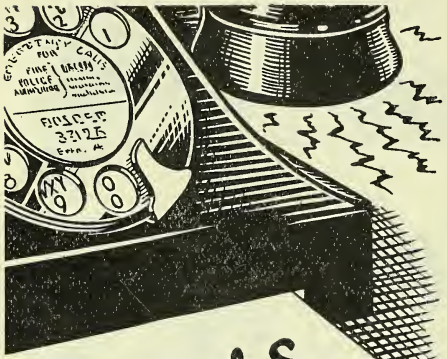
Meet Mr. Snowman and Mr. Robin—two characters who are out to help you sell more Alka-Seltzer. You'll see them often in the big national dailies. They appear in the first two of a sparkling new series of Alka-Seltzer ads. Notice how these ads. join solid selling to fun—how they sing out from the paper and send the sales-story home.

Turn smiles into sales!

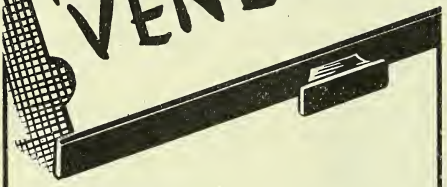
More and more of your customers will want to see for themselves how quickly Alka-Seltzer relieves the discomforts of a cold, indigestion, headaches, everyday aches and pains. And you can sell and recommend Alka-Seltzer confidently—it's a unique combination of aspirin, sodium bicarbonate and citric acid in a chemically stable effervescent tablet.

Ample supplies—display discounts

Good supplies of Alka-Seltzer are coming from the new factory at Bridgend. Tie up with this new advertising campaign—check your stocks and put in a display! Write for trade price list and details of display discounts to Don S. Momand Ltd., 57 Albany Street, London, N.W.1. Sole Distributors for Miles Laboratories.



Growers are calling for 'VENETAN'



THERE IS A BIGGER DEMAND THAN EVER THIS YEAR FOR A NICOTINE WASH AND—

'Venetan' TRADE MARK

THE NICOTINE INSECTICIDE

CONTAINS NICOTINE IN A MORE POTENT FORM

BAYER PRODUCTS LTD
AFRICA HOUSE · KINGSWAY · LONDON · W.C.2

LASTONET REGISTERED

OPEN WOVE ELASTIC
SUPPORTING BANDAGE

Manufactured from LASTEX THREAD

Write for terms

Wholesale Distributors
The Medical Supply Association LIMITED
167-173 GRAY'S INN ROAD
LONDON, W.C.1.

"Lastonet" is a Registered Trade Mark of John Heathcoat & Co.

The SATISFACTORY Line is that which gives SATISFACTORY profit & SATISFACTION to your customers

"WICK" BRAND

DDT (Geigy)
FLY-KILLER CARDS

2D EACH
COST 14/- GROSS

Will positively kill all flies, moths, etc. which touch the card.

These cards are impregnated with D D T under pressure.

also 1/- powder (cost 8/- doz), 1/3 liquid (cost 10/- doz)

WICK INDUSTRIES CO. 256 Wick Rd. London, E.9

'ROCHE' NEWS IN BRIEF

'Roche' 1948 Price List

The new edition of the 'Roche' Price List is now ready and copies are obtainable on application.

Incidence of Purchase Tax

Pharmacists are reminded that the proposed removal of purchase tax on vitamin ampoules is not yet official, but as soon as information is available we shall give notice of the changes in the prices of 'Roche' preparations concerned.

Important Additions to List

A number of important additions made to the 'Roche' Price List include the following:

Ferro-'Redoxon.' In this preparation are combined ferrous iron and vitamin C in sugar-coated granules. Ferro-'Redoxon' is particularly indicated in certain types of anæmia occurring in children and is also suitable for administration to adults. The granules are issued in packings of two sizes, 100 and 500 at 3/6d. and 15/- respectively (purchase tax 9½d. and 3/4d. extra). A new calcium preparation with vitamins C and D has been placed on the market in the form of tablets under the name Calcium-D-'Redoxon.' These tablets are prescribed in rickets, dental caries, osteoporosis, during pregnancy, etc., and are issued in packings of 100, retailing at 6/6d., plus purchase tax, 1/5½d.—To meet the demand for high dosage of vitamin C, a new strength of 'Redoxon' tablets, 200 mg. in each, has been added to the list in packings of four sizes, 25, 100, 500 and 1,000. Previous strengths are still available.

Herpes Zoster

The authors of a recent article describe 23 cases of idiopathic herpes zoster treated with vitamin B_1 (aneurine, thiamin) and 'Prostigmin' and discuss the rationale, referring to the synergistic action of vitamin B_1 and acetylcholine. As soon as diagnosis was established, an intramuscular injection of a mixture of 100 mg. vitamin B_1 and 0.5 mg. (1 c.c.) 'Prostigmin' was given, this being repeated every other day until the severe pain was relieved, usually 4 to 10 days. In the control series of 20 patients the average duration of symptoms was approximately six weeks. Six cases of neuralgia were similarly treated with "remarkably good" results. (*N.Y.St.J.Med.*, 1947, *47*, 1997). Vitamin B_1 is issued as 'Benerva' tablets and ampoules of three strengths.

Treatment of Chilblains

The most important predisposing factors in the aetiology of chilblains are generally considered to be defective peripheral circulation with increased permeability of the capillary walls and diminished coagulability of the blood. As similar symptoms are often associated with vitamin K deficiency the author considers that it would seem logical to use the vitamin in the treatment of chilblains and suggests that individual susceptibility may be explained in terms of a mild vitamin K deficiency in certain individuals. In the series studied the dosage of vitamin K needed varied considerably and was not related to the severity of the condition; 20 mg. twice daily being most generally useful. In some cases a short course of treatment was sufficient to give protection for a long period, but in others it was necessary to continue the treatment to prevent a recurrence. Case histories of eight patients are given in whom the symptoms varied from mild to very severe. Of these, four obtained complete relief and the other four showed marked improvement. The response to treatment was better when the vitamin K was given by intramuscular injection than when given orally. (*Brit.Med.J.*, 1947, ii. 689). ('Synkavit' tablets are issued in packings of 20, 100 and 500. Ampoules in packings of 6 and 50).

ASHE

acnolene clears the skin

Prescribed by Doctors and Skin Specialists in the treatment of all types of acne, for dermatitis and for soap sensitive skins.
4 oz. 2/9; 16/9 doz. 8 oz. 5/-; 30/- doz. (plus 50% P.T.)

A PRODUCT OF
ASHE LABORATORIES LTD
120/2 Victoria Street, London, S.W.1. Phone: VICtoria 6781/6

MILLIONS NOW KNOW THAT
"good brushes they can well afford"
ARE STAMPED
Hygex

Hygex Rubber-cushioned brushes retail at:

IN NYLON	IN BRISTLE	IN WIRE
17/6	12/6	6/4

Hygex Shaving Brushes in sterilised bristle are from 5/- to 5 gns.
Distributed fairly through usual wholesale channels.
HENDERSON BROS. & COMPANY LIMITED
BURWELL ROAD, LONDON, E.10 TEL: LEYTONSTONE 5202/3

"HYGEX" Brushes
Retailers can obtain their supplies of Hygex brushes at the new reduced controlled prices from :—
SAMUEL GORB & CO., 140 Central Street, London, E.C.1 Telephone: CLE 1368

GUM DROPS & PASTILLES
Manufactured in FRANCE
All Flavours — All packings, also loose. Large quantities immediately available for export to all countries — Bargain Prices.
GUENOT *Manufacturing Chemists,* 14 avenue Mozart, PARIS, FRANCE

EVERSHARP RAZOR BLADES
FIT EVER-READY RAZORS
Wholesale Price 18/- Gross Incl. Tax Post Free
DEPT. J
L. FRANKENBERG Ltd.
37 HOUNDSDITCH, LONDON, E.C.3
— WHOLESALERS APPLY FOR TERMS —

A *SINGLE* SUPPLEMENT for SAFER PREGNANCY

Adequate safeguards against the hazards of pregnancy are now routine in practice. Among these, the provision of priority supplies of essential foods to pregnant women has had a significant effect in reducing maternal and infant mortality. Instances still occur, however, in which full advantage is not taken of these allowances. In such cases Pregnavite will ensure an adequate intake of a wide range of nutrients.

PREGNAVITE

Bottles of 120 tablets (20 days' supply) 6/-. Per dozen bottles 49/-

New Publication: 42 pp. book, "Vitamin Therapy—its uses and limitations," with therapeutic index also new Price List, free on application.

Vitamins Limited

(Dept. C.D.) Upper Mall, London W.6

MALTOBAR

s available in

7½D BARS

NO POINTS

TASTES GOOD — LOOKS GOOD

Each ounce contains 2,000 i.u. vitamin D

Enquiries to the Manufacturers:

AFFINED BASIC CHEMICALS LTD.

EMPIRE WORKS, DESBOROUGH ROAD, HIGH WYCOMBE, BUCKS.

Telephone High Wycombe 2266-7-8

Sole Agents: MEDGESON & CO. LTD., CHESSINGTON, SURREY

Manufactured by:

CARLTON PHARMACEUTICAL INDUSTRIES LTD. LONDON, W.5

SEROCALCIN..

FOR THE PREVENTION AND TREATMENT OF COLDS

The extensive advertising campaign in all sections of the press and the personal recommendation of regular users have created a constantly increasing demand for Serocalcin. Ample supplies are available now and chemists are urged to maintain adequate stocks.

Special Window Displays featuring Serocalcin are being arranged during March, and Chemists are asked to make sure that they have adequate stocks to meet the additional demand that these displays will create.

P.A.T.A.

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent

Serocalcin is packed in 20s and 60s.

HARWOODS LABORATORI LTD. WATFORD, HERTS.

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

MARCH 27 1948

Prevailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. It is therefore advisable to send instructions as early as possible. All advertisements in this section must be prepaid. Box office numbers 2/- extra.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

/6 for 36 words or less, 3d. for every additional word

RETAIL (HOME)

IRMINGHAM. Manager required for branch shop ith fairly busy dispensing. Position is a permanicy and salary with commission on net profits is fered to suitable applicant. Plenty of scope for harmacist (either sex) with energy and initiative. ull particulars and when free, to C. L. Highfield, td., Bearwood Road, Smethwick, Staffs.

RIGHTON. Savory & Moore have a vacancy at eir branch, 71 East St., for a pharmacist, male female, and an unqualified assistant with disensing experience. Apply personally to the manger of the branch, or by letter only, to H. F. tapley, 61 Welbeck St., W.1.

RISTOL. Qualified assistant wanted (either sex). hiefly for dispensing. Please apply with usual parculars to Strode Cosh & Penfold, Ltd., 69 Easton d., Bristol, 5.

ISPENSER, qualified, required immediately for octors' practice in East Anglia. Permanency, but ocum considered. Box 3/258.

EAMINGTON SPA. Qualified, to manage branch harmacy; salary and commission. Hours 9 to 6. rospects of advancement. Hutton & Barrett, Ltd., 2 Parade, Leamington Spa.

ONDON. Hampstead district. Pharmacist, lady gentleman, required to take charge of dispensing epartment of high-class pharmacy. A really good alary paid to the applicant who has had the right xperience. The position is permanent and proressive and there is a superannuation scheme availble. Box 3/265.

ANCHESTER & SALFORD Equitable Co-operative ociety, Ltd., invites applications from pharmacists or the positions of manager for central pharmacy nd a branch manager. Permanent and progressive ositions. Superannuation scheme. Applications, ating age, experience, and salary required, to: uperintendent Chemist, 67 Downing St., Manhester, 1.

.P.U. REGISTER OF LOCUM TENENS. The serices of a number of qualified locums are urgently equired, and pharmacists (male or female), who are t present available for locum duty, are invited apply to The National Pharmaceutical Union, -5 Queen Sq., London, W.C.1.

UALIFIED ASSISTANT of either sex required for usy central pharmacy. Excellent prospects. Permanent situation. Superannuation. Applications ith age, experience and salary required, to Secreary, Gillingham Co-operative Chemists, Ltd., 142 igh St., Gillingham, Kent.

HEFFIELD & Eccleshall Co-operative Society inites applications from pharmacists for position of ranch manager of established business, capable of onsiderable expansion; in pleasant, suburban resiential district. Write, stating age, experience, alary required, to Superintendent Chemist, The rcade, Eccleshall Rd., Sheffield, 11.

PHARMACIST required in good-class country business. Market town. Progressive position to suitable applicant. Permanency. Please apply with fullest particulars, to H. Worth, Ltd., Chemists, Bishop's Castle, Shropshire.

PHARMACIST. Experienced qualified man to take charge of branch in Central London. Permanency for suitable man. Living accommodation could be arranged if required. Apply Lewis & Burrows, 146 Holborn, E.C.1.

SAVORY & MOORE have vacancies for two or three apprentices, both in London and in the country. Excellent opportunity for gaining a really good dispensing experience. Time off for study arranged to suit the individual. No premium required. Small salary paid which can be adjusted to suit circumstances of the apprentice. Apply by letter only, stating whether London or country preferred, to H. F. Stapley, 61 Welbeck St., W.1.

SOUTH KENSINGTON. Lady or gentleman assistant required in good-class business. Duties principally dispensing, and to assist at counter. Apply P. Bolton (W. B. Fielding), 54 Old Brompton Rd., South Kensington, S.W.7. Tel. Ken. 6154.

THE BRIGHTSIDE & CARBROOK Co-operative Chemists, Ltd., invite applications from qualified pharmacists as branch managers. Write, stating age, experience and salary required, to Superintendent Chemist, 32 Sycamore St., Sheffield, 1.

THE BRIGHTSIDE & CARBROOK Co-operative Chemists, Ltd., invite applications from unqualified assistants as dispensers. Write, stating age and experience, to Superintendent Chemist, 32, Sycamore St., Sheffield, 1.

YOUNG LADY, experienced counter assistant for City pharmacy. Apply Box 3/146.

LOCUMS WANTED

LOCUM WANTED. Unqualified, experienced, about 18 days early May; also one qualified, late June or July 14 days; also would consider apprentice; matric.; either sex in all cases. Watson, Chemists, Forest Gate.

RETAIL (OVERSEAS)

QUALIFIED CHEMIST, capable of taking over management of department in large departmental store in Ceylon. Salary and allowances approximate £1,000 per annum; 4 years' engagement; passage paid out and home; six months' home leave with half pay and free passages if engagement renewed. Low income tax and other benefits. Position holds excellent prospects. Write, giving full experience, with particulars, etc., Box W.230 Willings, 362 Gray's Inn Rd., London, W.C.1.

QUALIFIED CHEMIST, middle-aged bachelor or young unmarried man who is prepared for a quiet life, required to manage rural pharmacy in native town having population 100 Europeans and 20,000 natives. Salary, £500 per annum, plus free board and lodging and 5 per cent. commission on profits. Three months' notice either side. Available recreations: Golf, tennis and cricket. Applications with full particulars experience and qualifications to Blackbeard Bros., Serowe, Bechuanaland Protectorate, South Africa.

WHOLESALE

A CHIEF ASSISTANT CHEMIST is required by a well-known company in the North-west engaged in the proprietary medicines and general pharmaceutical fields. The duties include supervision of separate control and research laboratories and investigation of technical problems arising in both export and home markets. Minimum qualifications are Ph.C. or B.Sc. (Pharmacy), preferably with additional qualifications and some research experience, and the appointment is both permanent and progressive. Write in confidence, giving fullest details, to Box 3/247.

A LADY PHARMACIST required by small but long-established manufacturing firm to supervise manufacture of existing preparations and to assist in further development. Write giving details of age, qualifications, etc., and salary required. Box 3/203.

ASSISTANT ANALYST with C. & D. or Inter. B.Sc. Some experience of analysis of drugs, including alkaloidal assays, desirable. Details of experience and salary required to J. F. Macfarlan & Co., 4 Warwick Rd., Boreham Wood, Herts.

CHEMICAL MANUFACTURERS and merchants require commercial chemist experienced in buying and selling; personal contacts an advantage; attractive post; very good remuneration. Reply to Box 3/251.

COSMETIC COMPANY, West London, requires junior chemist with experience in particle size analysis and control of face powder, etc., production. Salary according to qualification and experience. Box 3/236.

EVANS MEDICAL SUPPLIES, LTD., require an assistant analyst of Ph.C. or A.R.I.C. standard. Salary according to qualifications and experience. Apply to the Manager, Evans Medical Supplies, Ltd., 29 Fleet St., Liverpool, 1.

EXPERIENCED REPRESENTATIVES calling on chemists, hairdressers and stores, urgently required to take over existing connections in (1) Yorkshire, (2) Lancashire, (3) Northumberland and Durham, (4) Midlands, by pre-war firm of distributors for well-known English and French cosmetics, perfumes, novelties, sundries. Commission only or salary, etc. Box 3/187.

FINE CHEMICAL MANUFACTURERS in the Home Counties require analyst to take charge of their analytical and control laboratory. Qualifications required: B.Sc., A.R.I.C., Ph.C., with knowledge of fine chemical and alkaloid assays. Salary, £600 per annum. House available in approximately 3 months' time. Box 3/68.

JUNIOR CHEMIST (male) required by cosmetic company West London area with training in manufacture and control of emulsions. Salary according to qualification and experience. Box 3/237.

LIVE SALES REPRESENTATIVE required for nationally advertised product. Must have good connection with retail chemists in Lancs, Cheshire, Northumberland, Durham and Cumberland. Full time salary and commission basis or generous free lance commission. Box 3/220.

OLD-ESTABLISHED FIRM of manufacturing and wholesale chemists require a representative for Yorkshire and the Midlands. Car owner preferred. Experience in dealing with doctors and retail chemists necessary. Progressive position with salary, commission and expenses. Please apply giving full details, to Box 3/224.

OPPORTUNITY for young single man with energy and initiative, preferably qualified pharmacist, to join the export sales staff of prominent firm marketing ethical pharmaceutical products. Excellent prospects and wide scope for suitable man, who may be required to visit export markets or reside overseas eventually. Must be in good health and have sound knowledge of French language. Previous similar experience not imperative, but sound commercial knowledge necessary. Apply initially in writing to Box 3/238.

TECHNICAL EXECUTIVE

A PROMINENT London firm manufacturing pharmaceutical products requires a qualified chemist with sound knowledge of production and research. The vacancy is due to continued expansion of the business and is a permanent post offering unlimited scope. A good salary will be paid. Apply, giving full details of age, qualifications and experience, etc., to Box 3/217.

LIVE SALES REPRESENTATIVE calling on retail and wholesale chemists required to carry additional lines in Yorkshire area. Well-advertised products. Generous commission. Box 3/222.

OLD-ESTABLISHED CHEMISTS' sundriesmen require full-time representative for West/North-west London. Must be experienced. Preference given to one with own connections, knowing area. Existing remunerative connection will be handed over. Car provided. Full support guaranteed. Salary and/or commission. Staff pension scheme. Full details, references, etc., to James Hardcastle & Co., 20 High Holborn, W.C.1.

PARKE, DAVIS & CO., Hounslow offices, require a French-German translator with thorough knowledge of medical and chemical terms and phraseology. Apply, giving age, qualifications, experience and salary, to the Staff Manager, Parke, Davis & Co., 54 Beak St., London, W.1.

REPRESENTATIVES required for proprietary line. Good income and prospects to men not afraid to work. Established connections with chemists, stores and Co-operatives. Send fullest details in confidence prior to interview. Territories: London, Home Counties, Midlands and Yorkshire. Write Box A.C. 28072, Samson Clarks, 57-61 Mortimer St., W.1.

REPRESENTATIVE required by an old-established house of manufacturing chemists for the North of England and Scotland with experience of calling upon doctors, chemists, hospitals and veterinary surgeons. Applications, giving full details of experience, salary required, etc., to Box 3/252.

REPRESENTATIVES required for (a) Warwicks, Worcs, Shrops and Staffs, (b) Glasgow and S.W. Scotland, (c) Bristol and S.W. Counties, by manufacturing chemists marketing nationally advertised branded line and other products. Essential qualifications: Well-established chemist connection; own car and first-class sales record. Remuneration: Salary, car allowance, hotels and commission. Send full details with copy references, Box 3/191.

STAFFORD ALLENS require senior works chemist for Long Melford factory. Applicants must hold Ph.C. or B.Pharm. degrees. The appointment will involve responsible control of production. Salary £600-£800 according to experience. Apply, stating age and experience, to Stafford Allen & Sons, Ltd., Dept. D/RPM, 20 Wharf Rd., London, N.1.

SALES MANAGER required by manufacturing chemists (N.W. London). Only applicants with sound experience need apply. Good salary and prospects. Please give details, including qualifications, age, etc., to Box 3/218.

SUPERVISOR of packing department required at pharmaceutical laboratories near Kingston, Surrey. Practical experience of large-scale tablet packing essential. Fullest details and salary required to Production Director, Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2.

WANTED. Representative to call on chemists' wholesalers, stores, etc., London area. Preferably one with experience. Wage and commission. Harman Dietetic Laboratories, Ltd., Cavendish Works., North Parade, Burnt Oak, Middlesex. Tel. Edgware 8286.

ALES REPRESENTATIVE required by manufactur-g chemist marketing nationally advertised toilet nd medicinal products for a territory comprising orthumberland, Durham, Westmorland and Cum-erland. Successful applicant will be entitled to in a superannuation scheme and will be provided ith a motor car. Write, stating age, experience nd salary required, to Box No. F.2200, Bensons, ingsway Hall, London, W.C.2.

ORKSHIREMAN required to represent well-known rm of manufacturing chemists in Yorkshire. To all on doctors, chemists and hospitals. Good scope the right man. Car owner preferred. Write fully, ating age, experience and salary required. Box /235.

SITUATIONS WANTED

/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

TOCKTAKING, quiet and efficient workmanship, ver 30 years' practical experience. Personal super-ision. C. W. Playfoot, 8 Aylward Rd., Merton ark, S.W.20. Tel. Libertv 4104.

NQUALIFIED, presently engaged, over thirty years' xperience country and London (counter and dis-ensing) desires change. Interview desired. Box /261.

LOCUMS SEEKING ENGAGEMENTS

ARCH 30th to April 10th, and April 26th to May 9th. Pharmacist available as locum. W. Hilton, 6 Kenpas Highway, Coventry.

WHOLESALE

DVERTISER with wide experience as sales super-isor, sales manager and commission salesman, seeks osition as sales manager in progressive non-combine ompany. Box 3/179.

GENT OR REPRESENTATIVE. Services offered by xperienced, conscientious advertiser, 39. Good con-ection chemists and wholesalers Lincs, Notts, Derbys, Warwicks, and Leics. Excellent references. ox 3/263.

UYER, many years' experience in manufacturing hemists, cosmetic and household trades, seeks simi-ar or other managerial position requiring organising nd administrative ability, anywhere at home or broad with prospects. Box 3/157.

HANGE OF TERRITORY is desired, preferably to West of England or London area, by first-class repre-entative with 20 years' direct selling experience in he drug, toilet and photographic trades. Highest rade and personal qualifications. Age 43, married; public school education; five years Royal Navy; keen, daptable and conscientious worker. First-class house vanted where genuine representation and personal ffort is appreciated. Box 3/245.

XPERIENCED REPRESENTATIVE seeks one addi-ional firm of repute for the London and Greater London area. Connection with leading chemists, tores, Co-ops., hairdressers, etc. Commission basis. Represent old-established toilet brush manufacturers. Box 3/241.

IVE WIRE SALESMAN calling chemists, etc., Lon-lon and Home Counties, North of Thames, with ertain sundry and pharmaceutical lines, guarantees ood repeat business for goods with real sales poten-ialities. Pioneer lines welcomed. Requires sole representation for area. Unusual opportunity for manufacturers or importers. Box 3/246.

REPRESENTATIVE with own car seeks change offer-ng scope and interest. Residence Lancs/West Rid-ng border. Box 3/262.

ALES MANAGER with wide experience in market-ng cosmetics, proprietary medicinal products, etc., n home and export markets, seeks appointment. Box 3/207.

APPOINTMENTS

COUNTY BOROUGH OF WEST HAM

Applications are invited for LOCUM ASSIST-ANT PHARMACIST at Central Home, Union Road, Leytonstone, E.11, and Forest Gate Hos-pital, Forest Lane, Forest Gate, E.7 (joint appointment).

Salary £9 per week.

Post is governed by Council's regulations.

Applications, stating age, qualifications and experience, to be sent to Medical Officer of Health, 225 Romford Rd., West Ham, Lon-don, E.7.

EXPERIENCED LOCUM DISPENSER

(Hall's Qualification) required for two weeks commencing 13th September to 25th September, 1948, inclusive. Apply with two recent refer-ences to the Secretary and House Governor, Royal East Sussex Hospital, Hastings.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required for CHASE FARM HOSPITAL, En-field, Middlesex. Non-resident, unestablished, possible establishment or locum capacity if pre-ferred. Salary, if unestablished, £370-£450 p.a. inclusive; if locum up to 10 gns. p. wk., according to experience, for maximum period of three months. Recently qualified pharmacists considered. Application, stating age, qualifi-cations, experience, with copies of up to three recent testimonials to Medical Director of hos-pital by 10th April (quoting D.859 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

Middlesex Guildhall,
S.W.1.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

APPLICATIONS are invited from agents calling che-mists, grocers, etc., for sale of proprietary lines. Areas vacant: S.W. & West England; S. Wales; London and S.E. Counties; North Midlands and Northern Counties. Payment by commission or expenses allowance and commission. Box 3/242.

AGENTS wanted to call on chiropodists only. Trade Marked product in constant need by the profession, well proven, without competition. Success assured. Generous commissions and reserved territories (Great Britain only) available. Box 3/176.

THE NITA PUFF CO., are desiring a first-class dis-tributor for their already established products. 110 Dale End, Birmingham, 4.

WHOLESALE SUNDRIES HOUSE require agents calling on hairdressers, etc., in the London area. Only those with own connection and first-class refer-ences considered. Apply Box 3/244.

AGENCIES WANTED

8/6 for 36 words or less, 3d. for every additional word

CANADA. Experienced sales-organiser with person-ality, tact and initiative, well travelled, languages, shortly leaving for Canada for permanent residence wishes to contact manufacturers of first quality pro-ducts suitable Canadian market to develop trade as representative. Box 3/260.

CAPABLE EXECUTIVE shortly leaving for United States of America would undertake any commis-sions or confidential market investigation in all matters appertaining to drugs, chemicals, perfumery, soaps, etc., of whch he has extensive home and continental knowledge. For further details write with particulars Box 3/259.

PHARMACIST requires agencies for N. Ireland, covering hospitals, doctors, chemists and works (welfare and F.A.). Box 3/243.

NORTHERN IRELAND & EIRE. Agents calling on chemists and druggists desire contact firms interested in doing business with best houses on this territory. Box 3/230.

SOUTH AFRICA, Southern Rhodesia. Agencies for pharmaceuticals, proprietaries, toilets, machinery, etc., required by sales-manager proceeding soon to join, in Johannesburg, an influential figure in the official chemical and pharmaceutical world in the Union. Box 3/264.

BUSINESS OPPORTUNITIES

17/6 for 36 words or less, 4d. for every additional word

FIRM of manufacturing chemists desirous developing a new household line prepared consider offers. Product must be of exceptional merit and likely to be in good demand. Box 3/210.

MANUFACTURING CHEMISTS have facilities and space available for the manufacture, packing and bottling of domestic, toilet and industrial products. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Tel. Reliance 3435.

TOOTHPASTE, COSMETICS, toilet preparations, patent medicines. Sole selling rights sought by City import-export merchants for the British West Indies. Replies to Box 3/250.

WANTED FOR EXPORT to Switzerland. Basic chemicals for pharmaceutical industry. Box 3/257.

BUSINESSES FOR DISPOSAL

8/6 for 36 words or less, 3d. for every additional word

SURGICAL APPLIANCE and contraceptive business, Sussex, showing £60-£70 profit weekly; owner managed; increasing. Only genuine enquiries with banker's references considered by owner's personal agent. Information will be imparted after personal contact in first instance. Exceptional opportunity. £11,500, including valuable freehold. Box 3/266.

WHOLESALE SURGICAL BUSINESS for disposal or partnership entertained. Rapidly increasing turnover. Freehold factory with 18,000 sq. ft. available. Takings for the past 12 months approached £22,000, much greater rate now. Excellent profits. Total purchase price required approximately £62,000, of which freehold property is £32,000 and goodwill £10,000. 26 employees. Apply Orridge & Co., 184 Strand, W.C.2.

£2,000 OR NEAR OFFER. Herbal stores, main street, Bedford, eight rooms, yard, outbuildings, 21 years' lease. Rent only £100 year. Exclusive. Electricity, gas, telephone. Chance to add chemists' and optical goods. Vacant possession when required. Principals only. Stamped envelope or 'phone Bedford 5430. Proprietor, 6 St. John St., Bedford, Beds.

EXPORT TRADE

DENMARK. Well-introduced, energetic import agent, visiting London beginning April, seeks British manufacturers' representations, preferably industrial chemicals. Write Box 3/214.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

APPROXIMATELY 6 tons ground nut fatty acid in 2-3-cwt. steel casks. First reasonable offer accepted. Write Box 3/248.

FOR SALE. Tablet filling machine (Edgar Brandt), type "Hygienic," for tubes and bottles. In perfect order. Fills 30 tubes or bottles per minute. Write Box 3/254.

FOR SALE. 50 gross 1-dram perfume bottles complete with black bakelite screw caps at 32s. 6d. per gross. 50 gross 2-dram perfume bottles complete with black bakelite screw caps at 33s. per gross. 100 gross 2½-oz. Tobbins complete with screw caps, 30s. per gross. 2 cwt. "Super Grade" gelatine at 4s. per lb. 100 gross 4-oz. D.D.T. drums at 24s. per gross. Box 3/249.

SURPLUS. 1 ton zinc oxide B.P. Best offers invited. Box 3/216.

OLEIC ACID, 99 per cent. extra pale re-distilled. 3,224 lb. Gamboge, Siam Pipe, in original case. 232 lb. Both parcels surplus to requirements. Offers invited for whole or part. Allcock Products, Limited, Birkenhead.

SURPLUS. 160 lb. rosemary oil. Best offers invited. Box 3/215.

THEOBROMINE ALKALOID, 2 cwt. for sale. Offers to Box 3/256.

WANTED

8/6 for 36 words or less, 3d. for every additional word

ACTUAL MANUFACTURERS in urgent need of glycerine and hyplas, would appreciate offers for any quantity, large or small, to Box 3/69.

COSMETIC manufacturers require supplies of a cellulose acetate or other container to hold lipstick refill. Prices and samples to Yeast-Pac Co., 146 Cromwell Rd., S.W.7.

GLYCERINE, chemically pure, required in any quantity. Cash by return. Box 3/132.

GLYCERINE REQUIRED. Advertiser is interested in obtaining any quantity of glycerine; none too large, none too small; any quality. Please write, stating quantity, quality, and price, to Box 3/255.

GLYCERINE. High price paid for small or large quantities. Supplies urgently required. Particulars, Box 3/240.

LACTOSE B.P. Quantity wanted; large quantities urgent; also white petroleum jelly B.P., glyceryl monostearate, vanillin, phenacetin and glycerine; also interested in Government surplus stocks of bandages, etc. Box 3/253.

MANESTY GRANULATOR, drying cupboard and mixer required by manufacturers. Write Box 3/239.

SACCHARIN TABLETS, standard quality, wanted in large or small quantities for cash. Box 3/180.

STEARIC ACID (triple pressed) wanted in large or small quantities. B.P. glycerine available if required as part payment. Box 3/189.

TABLET MACHINE wanted urgently; single punch machine, preferably belt driven, for tablets up to ⅝". Particulars to Williamson & Hogg, Union St., North Shields.

WANTED. Phenacetin, glycerine, required by manufacturing chemists. Offers to Box 2/307.

WEIGHING MACHINES, 1d. slot, wanted. Any make or condition: Avery, Salters, Autoways, etc. Send full particulars and price to Bolland, 41 Fellbrigg Rd., E. Dulwich, London, S.E.22.

FOR SALE

8/6 for 36 words or less, 3d. for every additional word

CARTER'S L.L. PILLS. 9 doz. 1/7 and 3/7 sizes, price 12/- and 24/- doz. respect.; whole or part sent carr. paid. Craingold, Chemist, 146 Cheetham Hill Rd., Manchester, 8.

SURPLUS STOCK. 1 cwt. phenacetin, 3 cwt. aspirin cryst. and gran. Both P.T. paid. Also phenolphthalein, 2 cwt. Offers wanted. Box 3/95.

TENDERS

CITY AND COUNTY OF BRISTOL

The Health Committee invite quotations for supply of following goods for City Hospital, Sanatoria, Health Centres, etc., for six months commencing 1st May, 1948.

Essential Drugs and Chemicals.
Medical Sundries.

Forms tender obtained undersigned and should be returned in a plain sealed envelope 10 a.m. 5th April, 1948, superscribed to show goods tendered for, but without any name or mark indicating sender. Contractors required observe fair wages clauses of the Council, and tenderers must state whether they are on the King's Roll.

Lowest or any tender not necessarily accepted. R. H. Parry, Medical Officer of Health, Kenwith Lodge, Westbury Park, Bristol, 6.

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